

Volume

#

R0418

BOOK A-418

4-679 b

INDEX DIAGRAM.

Township 11 S, Range 7 W

24	6	5	4	3	2	1
7	8	9	10	11	12	
13	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	
23	22	21	20	19	18	

Blank

Page

BOOK A-418

4-679 b

INDEX DIAGRAM.

Township 11 S, Range 6 E

35	6	5	4	3	2	1
33	7	8	9	10	11	12
32	18	61 56	17	16	15	14
	60.55	55.59				
30	19	58 54	20	21	22	23
	66	57.57				
29	30	65	29	52	28	27
	64	51				
28	31	62 63	32	50	33	34
	38	37.48	49			

Blank

Page

BOOK A-418

4-679 b

INDEX DIAGRAM.

Township <u>28 S</u> , Range <u>25 E</u>											
125	123	121	119	117	115						
202	186	5	180	4	175	3	171	2	166	1	113
184	182		179		174		170		165		
201	7	181	8	177	9	173	10	168	11	163	11
162		159		156		153		149		145	
179	18	160	17	93	16	154	15	151	14	147	13
144		93		157		81		81		136	139
142		142		91		124		127		136	139
109	19	142	20	94	21	80	22	134	23	126	24
		142						135		138	108
97		96				83		129		132	
	30		29		28		27	84	26	129	25
											107
								87		127	
	31		32		33		34	91	35	88	36
											104
								99		100	
								100		101	

Blank

Page

BOOK A-418

4-679 b

INDEX DIAGRAM.

Township 285 Range 268

226	227	228	97.9c			
6 245	5 266	4 244		8	2	1
244	264	265	96.9c			
7 242	8 262	9 243		10	11	12
241	260	261	95.9c			
18 239	17 258	16 222		15	14	13
238	256	257	94.9c			
19 236	20 254	21 221		22	23	24
235	251	253	93.9c			
30 233	29 252	28 219		27	26	25
231	248	250	92.9c			
31 229	32 247	33 218		34	35	36
244	245	247	91.9c			

INDEX

1 345-6

12 143 7

13 34/18

24 339 19

T. 12 S.

R. 19 W.

$\begin{array}{ccccccc} & & 335 & & & & \\ 35 & & 36 & & 31 & & 32 \\ \downarrow & & \downarrow & & & & \\ 337 & & 347 & & 319 & & 321 \\ & & 327 & & & & \\ & & 325 & & 6 & & \\ & & 325 & & & & \end{array}$

T. 13 S.

R. 19 W.

12 7
323

Y. 13 S.

R. 18 W.

4-679 b

INDEX DIAGRAM.

Township 11 S, Range 19 W

6	485	311 505 503 501 487 481 499 445 493 479 469 477	481	4	3	2	1
7	473	475 471	467	9	10	281	11
18	17	16	15	14	13	281	281
19	20	21	22	23	24	281	281
30	29	28	27	26	25	281	281
31	32	33	34	35	36	461	281

281
305
283
303
283
301
283
297
465
287
295

Ind. 160
Goshute
Cent Baby

Blank

Page

Goshute Ind. Reson

4-679 b

INDEX DIAGRAM.

Township 13 S, Range 18 W

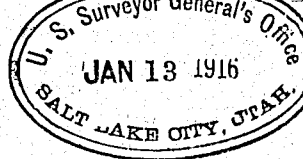
319-329 321-333

6	5 <i>361</i> 4	8	2	1
7	8 <i>363</i> 9	10	11	12
<i>365</i> 18	<i>365</i> 17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

INDEX DIAGRAM.

[illegible]

~~6-4317~~



FIELD NOTES

OF THE SURVEY OF THE

SOUTH AND WEST BOUNDARIES OF

T.11 S., R.7 W.

AND

RESURVEY AND SURVEY WEST BOUNDARY AND SURVEY SOUTH BOUNDARY

T.11 S., R.6 W.

Of the Salt Lake Base and Meridian,

In the State of Utah

EXECUTED BY

Howard W. Miller

In the capacity of U. S. Surveyor, under instructions dated June 25, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 37, which were approved by the Commissioner of the General Land
Office, July 21, 1915

Survey commenced November 12, 1915

Survey completed November 18, 1915

BOOK A-418

INDEX DIAGRAM.

Township 11 south, Range 7 west

8

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
7	6	5	4	3	2

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

Of the Meridian,

In the State of

EXECUTED BY

In the capacity of U. S. Surveyor....., under instructions dated....., 191....,
 issued by the United States Surveyor General to govern surveys included in
 Group No., which were approved by the Commissioner of the General Land
 Office,, 191....

Survey commenced....., 191....

Survey completed, 191....

BOOK A-418

INDEX DIAGRAM.

Township 11 south, Range 6 west

19	6	5	4	3	2	1
17	7	8	9	10	11	12
16	18	17	16	15	14	13
14	19	20	21	22	23	24
13	30	29	28	27	26	25
12	31 22	32 21	33	34	35	36

South boundary of T.11 S., R.7 W.

chains	<p>Survey commenced November 12, 1915 and executed with Young and Sons light mountain transit No. 8297, with Smiths solar attachment.</p> <p>For complete test and description of instrument see book "A" subdivision of T.11 S., R.7 W.</p> <p>I know the instrument to be in adjustment, test of same recorded in book "A" subdivision of T.11 S., R.7 W.</p> <hr/>
	<p>I begin at the cor. of Tps. 11 and 12 S., Rs. 6 and 7 W. described in the field notes of the survey of the S. bdy. of T.11 S., R.6 W. of this survey, approximate lat. $39^{\circ}49'N.$; longitude $112^{\circ}34'W.$</p> <p>Nov. 12: At 8h. 59m. a.m. l.m.t., I set off $39^{\circ}49'$ on the lat. arc; $17^{\circ}30'S.$, on the decl. arc; and determine a meridian with the solar at the above described cor.</p> <p>Thence I run</p> <p>West, on a random and tangent line on S. bdy. of T.11 S., R.7 W. setting temp. $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 chs.</p>
40.00	On tangent line, set temp. $\frac{1}{2}$ sec. cor.
80.00	N. 1 lk. from tangent line set temp. cor. secs. 1, 2, 35 and 36.
	Continue on tangent line $S.89^{\circ}59'W.$
40.00	N. 2 lks. from tangent, set temp. $\frac{1}{2}$ sec. cor.
80.00	N. 3 lks. from tangent, set temp. cor. secs. 2, 3, 34 and 35
	Continue on tangent line $S.89^{\circ}59'W.$
40.00	N. 5 lks. from tangent, set temp. $\frac{1}{2}$ sec. cor.
80.00	N. 8 lks. from tangent, set temp. cor. secs. 3, 4, 33 and 34
	Continue on tangent line $S.89^{\circ}58'W.$
40.00	N. 10 lks. from tangent, set temp. $\frac{1}{2}$ sec. cor.
80.00	N. 13 lks. from tangent, set temp. cor. secs. 4, 5, 32 and 33
	Nov. 12: At this station I set off $17^{\circ}33'S.$, on the decl. arc and at 11h. 44m. a.m. l.m.t., obs. the sun on the mer.; the resulting lat. is $39^{\circ}49'.$

South boundary of T.11 S., R.7 W.

chains

Continue on tangent line. S.89°57'W.

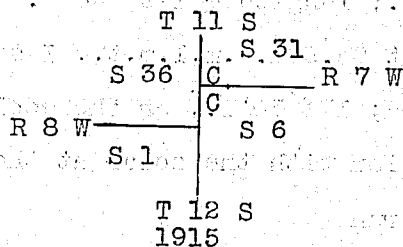
40.00 N.17 lks. from tangent, set temp. $\frac{1}{2}$ sec. cor.

80.00 N.21 lks. from tangent, set temp/ cor. secs. 5,6,31 and 32.

Continue on tangent line S.89°56'W.

40.00 N. 26 lks. from tangent, set temp. $\frac{1}{2}$ sec. cor.

79.79 N.30 lks. from tangent line, Intersect W. bdy. of the tp.12.26 chs. N.0°07'E. of the cor. of Tps. 11 and 12 S., R.8 W. heretofore described. At intersection, Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for closing cor. of Tps. 11 and 12 S., R.7 W., with brass cap marked



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

November 12, 1915.

November 13: For solar obsn. see line bet. secs. 34 and 35, subdivision of T.11 S., R.7 W.

From the cor. of Tps. 11 and 12 S., Rs. 6 and 7 W., I run

West, on true line bet. secs. 1 and 36

Gradually descend over gently rolling land through short undergrowth of shadscale and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., with brass cap marked

S 36

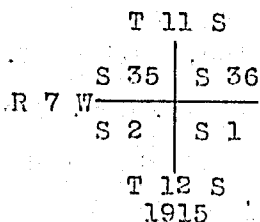
S 1
1915

South boundary of T.11 S., R.7 W.

chains

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 1,2,35 and 36, with brass cap marked



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, gently rolling, drains SW.

Soil, 3rd. rate; light, dry brown clay mixed with gravel and streaked with rock on hard, dry clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

West, bet. secs. 2 and 35

Over gently rolling land through short undergrowth of shadscale and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., with brass cap marked

S 35

$\frac{1}{2}$

S 2

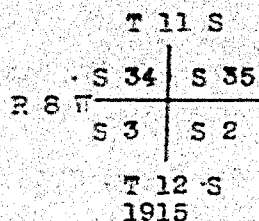
1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 2,3,34 and 35, with brass cap marked

South boundary of T.11 S., R.7 W.

chains



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, gently rolling, drains SW.

Soil, 3rd. rate; light, dry, warm brown clay mixed with gravel and streaked with rock on hard, baked clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

November 13, 1915.

November 15: For solar obsn. see line bet. secs. 33 and 34, subdivision of T.11 S., R.7 W.

West, bet. secs. 3 and 34

Over nearly level land draining SW., through short undergrowth of shadscale and sage brush.

- 7.20 Old road, bears N.15°E. and S.15°W.
- 8.10 Wash, 15 lks. wide, 3 ft. deep, course SW.
- 16.12 Wash, 10 lks. wide, 2 ft. deep, course S.25°W.
- 29.40 Enter greasewood undergrowth about 3 ft. high; bears NE. and SW.
- 35.00 Leave greasewood undergrowth, bears NE. and SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., with brass cap marked

S 34

$\frac{1}{2}$

S 3

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

- 42.00 Wash, 10 lks. wide, 2 $\frac{1}{2}$ ft. deep, course S.15°W.
- 43.25 Enter greasewood undergrowth, about 4 ft. high, bears

South boundary of T.11 S., R.7 W.

chains

NE. and SW.

63.50 Leave greasewood undergrowth, bears NE. and SW.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34, with brass cap marked

T 11 S	
S 33	S 34
S 4	S 3
T 12 S	
1915	

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.

of cor.

Land, nearly level, drains SW.

Soil, 3rd. rate; light, dry, warm sandy clay mixed with gravel and containing some alkali on hard, dry clay and gravel sub-soil.

No timber.

Undergrowth, shadscale, sage brush and some greasewood.

West, bet. secs. 4 and 33

Over gently rolling land draining SW., through short undergrowth of shadscale and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 33

$\frac{1}{4}$

S 4

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

52.80 Wash, 8 lks. wide, $2\frac{1}{2}$ ft. deep, course SW.

Leave shadscale undergrowth, bears N. 10° E. and SW.

63.45 Wash, 5 lks. wide, 3 ft. deep, course S. 60° W.

64.40 Wash, 10 lks. wide, 4 ft. deep, course S.

77.60 Enter shadscale undergrowth, bears N. and S.

South boundary of T.11 S., R.7 W.

chains

79.10 Enter wash, 8 lks. wide, 3 ft. deep, course W.

79.82 Wash turns S.10°W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 4, 5, 32 and 33, with brass cap marked

		T 11 S	
	S 32	|	S 33
R 7 W	S 5	|	S 4
		T 12 S	
		1915	

dig pits, 18 x 18 x 12 ins. in each sec., $5\frac{1}{2}$ ft. dist., raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling drains SW.

Soil, 2nd. rate; light, dry warm brown clay mixed with gravel and containing some alkali on hard, dry clay sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

November 15, 1915.

November 16: For solar obsn. see line bet. secs. 31 and 32 subdivision of T.11 S., R.7 W.

West, bet. secs. 5 and 32

Over gently rolling land draining W. of S., through dense short undergrowth of shadscale and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 32

$\frac{1}{4}$

S 5

1915

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.

South boundary of T.11 S., R.7 W.

chains

58.14 Wash, 6 lks. wide, 2 ft. deep, course S.70°W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 5,6,31 and 32, with brass cap marked

T 11 S	
S 31	S 32
R 7 W	S 6
S 6	S 5

T 12 S
1915

dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, nearly level valley, drains SW.

Soil, 2nd. rate; light, dry, warm sandy clay on hard, dry, brown clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

West, bet. secs. 6 and 31

Over gently rolling land, through dense short undergrowth of shadscale and sage brush.

30.00 Wash, 10 lks. wide, 3 ft. deep, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for ¼ sec. cor., with brass cap marked

S 31
¼

S 6

1915

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

40.65 Wash, 12 lks. wide, 4 ft. deep, course NW.

70.15 Old road, bears N. and S.

75.00 Begin descent into large shallow hollow, bears N. and S.

79.79 The closing cor. of Tps. 11 and 12 S., R.7 W.

East boundary of T.11 S., R.8 W.

chains

Land, gently rolling and rolling with general SW.
drainage.

Soil, 3rd. rate; light, dry, warm sandy clay mixed with
gravel and loose shale rock on hard, dry, brown clay
and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

November 16, 1915.

EAST BOUNDARY OF T.11 S., R.8 W.

Nov. 18: For solar obsn. see line bet. secs. 8 and 17,
subdivision of T.11 S., R.7 W.

From the cor. of secs. 1 and 12 on the E. bdy. of T.
11 S., R.8 W., heretofore described, I run

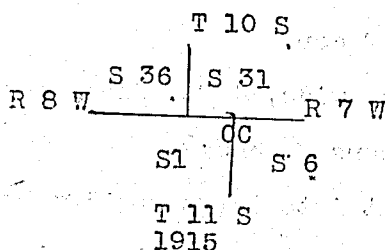
North, on a random line on E. bdy. sec. 1, T.11 S., R.8 W.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Nov. 18: At this station I set off $19^{\circ}06'S.$, on the
decl. arc; and at 11h. 45m. am. l.m.t., obs. the sun
on the meridian; the resulting lat. is $39^{\circ}54'$.

93.42 Intersect N. bdy. of the tp. 2.64 chs. east of the
Standard cor. of Tps. 10 S., Rs. 7 and 8 W. heretofore
described. At intersection

Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in
the ground and 12 ins. in a mound of stone for closing
cor. for Tps. 11 S., Rs. 7 and 8 W., with brass cap
marked



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.

chains

of cor.

Note: On account of underlying rock I am unable to set post more than 12 ins. in the ground.

Thence

South, on a true line on E. bdy. sec. 1

Gradually descend over rolling mountainous land sloping E. near bottom of W. side of large wide canyon draining S., through dense undergrowth of sage brush and scattering scrub cedar timber.

19.06 Enter dense timber, bears E. and W.

45.80 Leave dense timber, bears NW. and SE.

53.42 125 ft. below tp. cor.

Set an iron post, 3 ft. long, 1 in. in dia., 6 ins. in the ground and 20 ins. in a mound of stone for $\frac{1}{4}$ sec.

cor. on E. bdy. sec. 1, T.11 S., R.8 W., with brass

cap marked

S. 1 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.

of cor.

Note: On account of underlying rock I am unable to set post more than 6 ins. in the ground.

71.20 Bottom of ravine, wash in same, 10 lks. wide, 2 ft. deep,

105 ft. below $\frac{1}{4}$ sec. cor., course SE.

Gradually ascend over low E. point of spur.

87.00 Bottom of large gully, 30 lks. wide, 2 ft. deep, course

SW. Leave cedar timber, bears NE. and SW.

Ascend.

93.42 The cor. of secs. 1 and 12.

Land, rolling mountainous E. exposure, drains S.

Soil, 4th. rate; gravelly and rocky quartzite formation mixed with some light blue clay on hard clay and rock sub-soil.

Timber, cedar.

Boundaries of T.11 S., R.7 W.

chains

Undergrowth, sage brush.

November 18, 1915.

Boundaries of T.11 S., R.7 W.

Latitudes, departures and closing errors.

Lines designated	True bearing	Dist- ances	Latitudes		Departures	
			N.	S.	E.	W.
E.bdy. T.11 S., R.8 W.	N.0°07'E.	27.85	27.85		.06	
"	N.0°04'E.	40.25	40.25		.05	
"	N.0°20'E.	40.22	40.22		.23	
"	N.0°09'W.	40.19	40.19			.10
"	N.0°03'E.	40.28	40.28		.03	
"	N.0°05'W.	40.20	40.20			.06
"	N.0°04'E.	40.05	40.05		.05	
"	North	39.93	39.93			
"	N.0°08'E.	39.75	39.75		.09	
"	North	40.00	40.00			
"	North	93.42	93.42			
N.bdy. T.11 SR7W	East	237.33			237.33	
"	S.89°14'E.	40.52		.64	40.52	
"	N.89°56'E.	40.10	.05		40.10	
"	S.89°56'E.	40.20		.05	40.20	
"	S.89°56'E.	40.03		.05	40.03	
"	S.89°56'E.	39.75		.05	39.75	
"	S.89°51'E.	40.50		.10	40.50	
E.bdy. T.11 SR7W	South	481.70		481.70		
S.bdy. "	West	479.79				479.79
Convergency					.60	

482.19 482.49 479.57 479.95

482.19

Error in lat. --- .30

479.57

Error in departure

.38

For general description of T.11 S., R.7 W., see book of
subdivision of T.11 S., R.7 W.

Howard Miller

U. S. Surveyor

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

Survey commenced November 10, 1915 and executed with Young and Sons light mountain transit No. 8297, with Smith's solar attachment.

For complete description and test of instrument see book " A " , subdivision of T.11 S., R.7 W.

Nov. 10: I begin at the standard cor. of Tps. 10 and 11 S., Rs. 6 and 7 W., heretofore described. Latitude $39^{\circ}54'N$. approximate longitude $112^{\circ}34'W$.

For solar obsn. this date see E. $\frac{1}{2}$ mile S. bdy. sec. 35, 2nd. Standard Parallel South, R.7 W. recorded in book of subdivision of T.11 S., R.7 W. of this survey.

From above described tp. cor., I run South, retracing bet. secs. 1 and 6

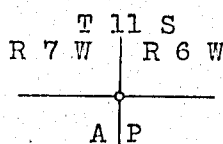
40.00 No trace of old $\frac{1}{4}$ sec. cor. can be found., I therefore continue my line south making careful searches at intervals of 40.00 chs. for $\frac{1}{4}$ sec. and sec. cors.

200.00 Nov. 10: At this station I set off $16^{\circ}59'S$., on the decl. arc; and at 11h.44m.a.m.1.m.t., obs. the sun on the mer.; the resulting lat. is $39^{\circ}52'$ which is 1' higher than the proper lat.

320.00 No trace of the cor. of secs. 19, 24, 25 and 30 can be found.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 19, 24, 25 and 30.

Nov. 17: This cor is changed to an angle point cor. after the survey of the subdivisional line bet. secs. 19 and 30, T.11 S., R.6 W. when a closing cor. for secs. 19 and 30 was necessary. Post marked as follows:



1915

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

November 10, 1915

November 11: At 7h.44m.a.m.l.m.t., I set off 39°50' on the lat. arc; 17°12'S., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 24, 25 and 30

Thence I run

South, on random line bet. secs. 25 and 30 and 31 and 36 setting temp. $\frac{1}{2}$ sec. and sec. cōrs. at intervals of 40.00 chs.

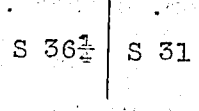
160.00 Set temp. cor. of Tps. 11 and 12 S., Rs. 6 and 7 W.

This cor. permanently set, 1.70 chs. S. of this point; for description of said cor. see S. bdy. of T.11 S., R. 6 W.

Thence from cor. of Tps. 11 and 12 S., Rs. 6 and 7 W., North, bet. secs. 31 and 36

Gradually ascend over gently rolling land through dense short undergrowth of shadscale and sage brush.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked



1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36, with brass cap marked

Resurvey and survey of the west boundary of T.11 S., R.6 W.

chains

T 11 S	
R 7 W	R 6 W
S 25	S 30
S 36	S 31

1915

dig pits, 18 x 18 x 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist.
raise a mound of earth, 4 ft. base, 2 ft. high, W. of
cor.

Land, gently rolling, drains SW.

Soil, 2nd. rate; light, dry brown clay mixed with gravel
on hard, dry sandy and gravelly sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

North, bet. secs. 25 and 30

Over nearly level land through dense undergrowth of
short shadscale and sage brush.

18.44 Road, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 10 ins. in
the ground and 16 ins. in a mound of stone for $\frac{1}{4}$ sec. cor.
with brass cap marked

S 25 $\frac{1}{2}$	S 30
--------------------	------

1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.
dist., raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
high, W. of cor.

Note: On account of underlying rock I am unable to set
post more than 10 ins. in the ground.

48.25 Road, bears N.80°E. and S.80°W.

50.88 Wash, 20 lks. wide, 5 ft. deep, course S.70°W.

80.00 Owing to the conditions of the surveys in T.11 S., R.6 W.,
the corners north of the $\frac{1}{4}$ sec. cor. bet. secs. 25 and

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

30 on this boundary will not refer to R.7 W., and in order to close the subdivisional lines of T.11 S., R.7 W. on this bdy. I set an extra set of $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 chs. north of the $\frac{1}{2}$ sec. cor. bet. secs. 25 and 30 for R.7 W., therefore at this point,

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 24 and 25 on the E. bdy. of T.11 S., R.7 W., with brass cap marked

T 11 S	
R 7 W	R 6 W
	S 19
S 24	S 30
S 25	

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Thence

North, with continuous chaining.

81.70

The cor. of secs. 19, 24, 25 and 30 later made an angle point cor.

Land, nearly level, drains SW.

Soil, light, dry, brown sandy clay mixed with gravel on dry, hard, clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

North, on W. bdy. sec. 19, T.11 S., R.6 W.

Over gently rolling land draining SW., through dense undergrowth of shadscale and sage brush.

38.30

A northing of 40.00 chs. from cor. secs. 24 and 25

E. bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor. E. bdy. sec. 24, T.11 S., R.7 W., with brass cap marked

Resurvey and survey west boundary of T.11 S., R.6 W.

chains

S 24 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. W. bdy. sec. 19, T.11 S., R.6 W., with brass cap marked

S 19 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.

Thence over rolling land.

46.20 Wash, 20 lks. wide, 2 ft. deep, course W.

78.30 A northing of 80.00 chs. from cor. secs. 24 and 25, E. bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins.

in the ground for cor. of secs. 13 and 24, E. bdy.

T.11 S., R.7 W., with brass cap marked

T 11 S	
R 7 W	R 6 W
	S 18
S 13	S 19

S 24

1915

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Thence

North, with continuous chaining.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins.

in the ground for cor. of secs. 18 and 19, W. bdy. of

T.11 S., R.6 W., with brass cap marked

T 11 S	
R 7 W	R 6 W
	S 18
S 13	S 19
S 24	

1915

Resurvey and survey of west boundary T.11 S., R.6 W.

chains

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E.
of cor.

Land, rolling, general W. exposure and drainage.

Soil, 3rd. rate; light, dry brown clay mixed with gravel
on hard, dry sandy clay and gravelly sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

North, on W. bdy. sec. 18, T.11 S., R.6 W.

Over gently rolling land through dense shadscale and
sage brush.

18.93 Wash; 10 lks. wide, 2 ft. deep, course S. 70° W.

38.30 A northing of 40.00 chs. from cor. secs. 13 and 24 on
the E. bdy. of T.11 S., R.7 W.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{2}$ sec. cor. E. bdy. sec. 13, T.11 S., R.
7 W., with brass cap marked.

S $13\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{2}$ sec. cor., W. bdy. sec. 18, T.11 S.,
R.6 W., with brass cap marked

S $18\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E.
of cor.

60.00 Top of small rocky knoll, bears W. about 5 chs.

77.00 Wash, 12 lks. wide, 3 ft. deep, course W.

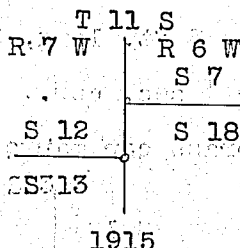
78.30 A northing of 80.00 from cor. . . . secs. 13 and 24, E.

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 12 and 13, E. bdy. T.11 S., R.7 W.; with brass cap marked



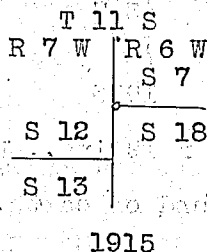
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.

of cor.

Thence

North, with continuous chaining.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 7 and 18, W. bdy. T.11 S., R.6 W., with brass cap marked



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

Land, rolling, W. exposure and drainage.

Soil, 2nd. rate; light, dry warm, sandy clay mixed with gravel on hard, dry brown clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

November 11, 1915.

November 17: For solar obsn. see line bet. secs. 19 and 30 subdivision of T.11 S., R.6 W.

North, on W. bdy. sec. 7, T.11 S., R.6 W.

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

Over nearly level land through dense undergrowth of
shadscale and sage brush.

22.10 Wash, 10 lks. wide, 3 ft. deep, course S.50°W.

38.30 A northing of 40.00 chs. from cor. secs. 12 and 13, E.
bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., E. bdy. sec. 12, T.11 S.,
R.7 W., with brass cap marked

S. 12 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.
of cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., W. bdy. sec. 7, T.11 S., R.
6 W. with brass cap marked

S. 7 $\frac{1}{4}$

1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.
dist., raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.
high, E. of cor.

43.80 Road, bears NW. and SE.

50.17 Road, bears NE. and SW.

73.26 Wash, 20 lks. wide, 6 ft. deep, course SW.

75.87 Old road, bears N.30°E. and S.30°W.

78.30 A northing of 80.00 chs. from cor. secs. 12 and 13, E.
bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in
the ground for cor. of secs. 1 and 12, E. bdy. T.11 S.,
R.7 W., with brass cap marked

T 11 S

R 7 W | R 6 W

S 6

S 1

S 7

S 12

1915

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Thence

North, with continuous chaining.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 6 and 7, W. bdy. T.11 S., R.6 W., with brass cap marked

T 11 S	
R 7 W	R 6 W
	S 6
S 1	S 7
S 12	

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

Note: Cor stands at foot of lone rocky hill bears NE. and SW.

Land, nearly level, drains SW.

Soil, light, dry, warm sandy clay mixed with gravel on dry, hard, sandy clay sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

North, on W. bdy. sec. 6, T.11 S., R.6 W.

Gradually ascend over rolling land on E. point of lone rocky hill through undergrowth of shadscale and sage brush.

13.00 Top of ascent on E. slope of hill. Enter scattering cedar timber, bears E. and W.

Gradually descend.

22.10 Wash at base of hill, 10 lks. wide, 3 ft. deep, bears NW. and SE., drains SE.

Gradually ascend.

38.30 A northing of 40.00 chs. from cor. secs. 1 and 12 on E. bdy. T.11 S., R.7 W.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in

Resurvey and survey of west boundary of T.11 S., R.6 W.

chains

the ground for $\frac{1}{2}$ sec. cor. E. bdy. sec. 1, T.11 S., R. 7 W., with brass cap marked

S $1\frac{1}{4}$

1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{2}$ sec. cor., W. bdy. sec. 6, T.11 S., R.6 W., with brass cap marked

S $6\frac{1}{2}$

1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

67.24 Wash, 10 lks. wide, 3 ft. deep, course S. 60° W.

80.00 The cor. of Tps. 10 and 11 S., Rs. 6 and 7 W.

Land, rolling, general S. exposure.

Soil, gravelly and stony with some light, brown sandy clay on hard, dry clay and gravelly sub-soil.

Timber, scrub cedar on N. 67.00 chs.

Undergrowth, shadscale and sage brush.

Some grass, good for grazing purposes.

November 17, 1915.

South boundary of T.11 S., R.6 W.

chains

Nov. 11: For solar obsn. see line bet. secs. 25 and 30
W. bdy. of T.11 S., R.6 W.

From the temp. cor. of Tps. 11 and 12 S., Rs. 6 and 7
W., heretofore described, I run

East, on a random line on the S. bdy. of T.11 S., R.6 W.
setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of
40.00 chs. and at 120.78 chs. fall 1.70 chs. N. of the
 $\frac{1}{4}$ sec. cor. bet. secs. 5 and 32 heretofore described.
This falling is out of limits, I therefore begin at
the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 32 and survey this
bdy. west.

From $\frac{1}{4}$ sec. cor. bet. secs. 5 and 32, I run
West, bet. secs. 5 and 32

Over mountainous land through dense undergrowth of
shadscale.

Descend.

1.00 Head of small draw, 15 ft. below $\frac{1}{4}$ sec. cor., course S.
Ascend 30 ft. to

5.43 Spur, 25 ft. above draw, projects SW.
Descend.

11.42 Base of mountains, bears NE. and SW.
Thence over nearly level land across large basin.

31.40 Leave basin, enter mountainous land, bears N.20°W. and
S.20°E.

Ascend over NE. slope.

40.00 45 ft. above base of mountain.

Set an iron post, 3 ft. long, 3 ins. in dia., 6 ins. in
the ground and 18 ins. in a mound of stone for cor.
of secs. 5, 6, 31 and 32, with brass cap marked

	T 11 S	
	S 31	S 32
R 6 W	<hr/>	
	S 6	S 5
	T 12 S	
	1915	

South boundary of T.11 S., R.6 W.

chains

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Note: On account of underlying rock I am unable to set
post more than 6 ins. in the ground.

Land, nearly level and mountainous. E.11.42 chs. and W.
8.59 chs. mountainous land with E. and W. exposures
and draining into large basin.

Soil, mountainous land generally rocky of quartz format-
ion with some light dry sandy loam, 4th. rate. Gently
rolling land soil is gravelly and light, dry sandy loam
on sandy and gravelly sub-soil.

No timber.

Undergrowth, shadscale.

West, bet. secs. 6 and 31

Ascend abruptly over rough broken mountainous land
sloping SE., through short undergrowth of shadscale.

5.00 Enter broken quartz ledges, bears N. and S.

15.15 Top of ascent on S. slope of mountain, 135 ft. above
sec. cor.

Gradually descend 25 ft. to

20.75 Spur, projects SW. A high rocky peak bears N. about
5 chs.

Descend abruptly over broken granite ledges and boulders.

30.50 Base of mountain and enter gently rolling valley bears
NW. and SE.

Descend gradually over gentle W. slope.

40.00 185 ft. below top of spur.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{2}$ sec. cor., with brass cap marked

S 31

S 6
1915

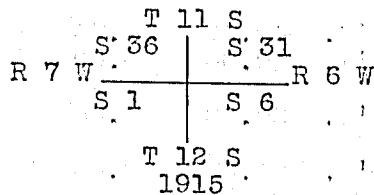
raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.

South boundary of T.11 S., R.6 W.

chains

of cor.

- 48.28 Road, bears NE. and SW.
 79.70 Wash, 40 lks. wide, $3\frac{1}{2}$ ft. deep, course SW.
 80.78 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 11 and 12 S., Rs. 6 and 7 W., with brass cap marked



raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

The temp. Tp. cor. bears N. 1.70 chs., I destroy same. Land, E. 30.50 chs. rough broken mountains with steep rocky SE. and W. slopes. W. 50.28 chs., gently rolling land with general W. exposure and gentle slope.

Soil, mountainous part, rocky, of quartz and granite formation on rocky sub-soil, 4th. rate. Soil gently rolling land, light, dry, shallow sandy clay mixed with gravel on hard, dry sandy and gravelly sub-soil, 2nd. rate.

No timber.

Undergrowth, shadscale.

November 11, 1915.

Boundaries of T.11 S., R.6 W

Latitudes, departures and closing errors.

Lines designated.	True bearings.	Dist-ances	Latitudes		Departures	
			N.	S.	E.	W.
N. by T.11 S.						
R.6 W.	South	241.70		241.70		
S. by T.11 S.						
R.6 W.	East	160.78			160.78	
Det. secs.						
32 & 33	N. 0° 13' W.	40.14	40.14			.15
"	N. 0° 16' W.	40.21	40.21			.19
Det. secs.						
28 and 29	N. 0° 12' W.	40.30	40.30			.14
"	N. 0° 48' E.	40.00	40.00		.56	
Det. secs.						
20 and 29	N 89° 41' W.	80.00	.44			80.00
Det. secs.						
18 and 20	N. 0° 10' W.	80.43	80.43			.23
Det. secs.						
18 and 19	N. 89° 53' W.	80.46	.16			80.46
Convergency						.08
			241.68	241.70	161.34	161.25
				241.68		
	Error in latitude			.02		
	Error in departure				161.25	.09

For general description T.11 S., R.6 W., see subdivision of T.11 S., R.6 W.

Howard W. Miller

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, REYNOLDS A. WILSON, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions; and the laws of the United States, surveyed all those parts or portions of _____

For final oath of U.S. Surveyor see book "H" T. 11 S. R. 7 W. and book "J" T. 11 S. R. 6 W. _____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 1915



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 27, 1916

The foregoing field notes of the survey of south and west boundaries of T. 11 S.R. 7 W. and resurvey and survey west boundary and survey south boundary T. 11 S. R. 6 W. S.L.B. & M. Utah

executed by Howard W. Miller and Isaac Hayes
^{their} under his special instructions dated June 25, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

L. C. Shoresen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

Blank

Page

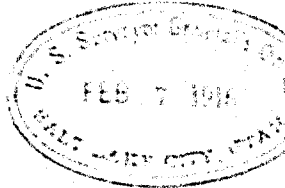
Blank

Page

BOOK A-418

4-578

J



FIELD NOTES

OF THE ~~SURVEY OF THE~~

RETRACEMENT AND RESURVEY OF THE SOUTH BOUNDARY

AND

RETRACEMENT, RESURVEY AND SURVEY OF THE SUBDIVISION OF

T.11.S., R.6.W.

Of the SALT LAKE BASE AND *Meridian,*

In the State of UTAH

EXECUTED BY

HOWARD W. MILLER

AND

ISAAC HAYES

In the capacity of U. S. Surveyor, under instructions dated June 25, 1915,

issued by the United States Surveyor General to govern surveys included in
Group No. 57 *which were approved by the Commissioner of the General Land*

Office, July 21, 1915

Survey commenced November 10 1915

Survey completed November 17 1915

BOOK A-418

INDEX DIAGRAM.

Township 11 south, Range 6 west.

6	5	4	3	2	1
7	8	9	10	11	12
18 15 14	17 13	16	15	14	13
19 12 20	20 11	21	22	23	24
20 18 18	20 6 16 5	28	27	26	25
21 17	32 4 2	33 3	34	35	36

Retracement and resurvey S. bdy. T.11 S., R.6 W.

chains

Survey commenced November 10, 1915 and executed with Young and sons light mountain transits Nos. 8297 and 8582, with Smith's solar attachment. The horizontal limbs are provided with two double verniers, placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs.

The instrument was approved for use in this survey by the Assistant Supervisor of Surveys for Utah.

The instruments were tested on a Polaris meridian Nov. 13 and found correct. For record of this test see subdivision of T.11 S., R.7 W.

Steel tapes, 5 chs. long were used by both parties, together with clinometers for determining slope angles and the reduced horizontal distances only appear in the field notes. The tapes were tested, comparison being made with a standard tape, 1 ch. long and kept and used for that purpose only.

In the decl. arc. settings, .85 of the tabulated refraction is used, due to the altitude of the country.

Nov. 11: For solar obsn. this date see line bet. secs. 25 and 30, W. bdy. T.11 S., R.6 W.

I begin at the cor. of secs. 4, 5, 32 and 33 which is a quartzite stone, 12 x 7 x 5 ins., lying on the ground, marked with 4 notches on one and 2 notches on opposite edge. No accessories to cor.

At exact position of old cor., re-set stone 8 ins. in

Retracement and resurvey of South boundary T.11 S., R.6 W.

chains	
	the ground for re-established cor. secs. 4,5,32 and 33 marked with 4 notches on E. and 2 notches on W. edge, raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Thence I run
	West, retracing bet. secs. 5 and 32
40.00	No trace of the old $\frac{1}{4}$ sec. cor. can be found.
	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and 14 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. with brass cap marked
	S 32 $\frac{1}{4}$
	S 5 1915
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Note: On account of underlying rock I am unable to set post more than 12 ins. in the ground.
	Thence I run
	East, resurveying bet. secs. 5 and 32.
	Over mountainous land through short undergrowth of sage brush and shadscale.
	Ascend over rocky SW. slope of ridge.
17.80	Top of ascent on S. slope of ridge, 170 ft. above $\frac{1}{4}$ sec. cor. Main top of ridge bears N. about $2\frac{1}{2}$ chs.
	Descend abruptly over E. slope.
35.68	Road and base of mountain, 130 ft. below top of ascent, bears NW. and S. 25° E.
37.60	Road, bears NE. and SW.
38.20	Wash, 20 lks. wide, 1 ft. deep, course S. 10° W.
	Ascend onto low rocky point.
40.00	The cor. of secs. 4,5,32 and 33
	Land, broken hills with sharp rocky ridges.
	Soil, gravelly and rocky, quartzite formation with some

Retracement and resurvey South boundary T.11 S., R.6 W.

chains

light, dry brown clay on hard clay and rocky sub-soil,
4th. rate.

No timber.

Undergrowth, short sage brush and shadscale.

Nov. 11: Not on line at noon this date, obsns. for lat.
are impossible.

East, retracing bet. secs. 4 and 33

Gradually ascend over rolling land through dense under-
growth short sage brush and shadscale.

7.06 Top of quartzite rock outcropping on top of small knoll,
40 ft. above sec. cor.

Descend.

12.05 Base of knoll, thence over nearly level land.

19.45 Wash, 10 lks. wide, 3 ft. deep, course NE,

32.15 Enter plowed ground, bears N. and S.

40.23 At NE. cor. of plowed field,

Fall 12 lks. S. of the $\frac{1}{2}$ sec. cor. which is a blue
limestone, 3 x 8 x 11 ins. above ground, firmly set,
marked $\frac{1}{2}$ on N. face. No accessories to cor.

The true bearing of this $\frac{1}{2}$ mile is N. 89° 50' E., and the
distance is 40.23 chs.

Land, rolling on W. 12.05 chs. and nearly level on E.

28.18 chs.

Soil, W. 12.05 chs. rocky of quartz formation on rocky
sub-soil, 4th. rate; E. 28.18 chs. light brown clay

loam, sub-soil, light cly, packed hard and very dry;

2nd. rate.

No timber,

Undergrowth, short sage brush and shadscale.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

Nov. 11 : For solar obsn. see line bet. secs. 25 and 30,
W. bdy. T.11 S., R.6 W.

From cor. secs. 4, 5, 32 and 33 on S. bdy. of the tp.,
~~heretofore~~ described, I run

North, retracing bet. secs. 32 and 33

Over rolling hills, through dense undergrowth of sage
brush and shadscale.

3.20 Wash, 15 lks. wide, 2 ft. deep, course S. 25° W.

4.83 Road, bears NE. and SW.

7.70 Large pile of black lava rock, 40 x 20 x 8 ft., on line.

12.70 Low spur, 25 ft. above wash, projects E. 3 chs.

Thence over E. end of low rolling foot hills.

40.14 Fall 15 lks. E. of the $\frac{1}{4}$ sec. cor., which is a gray
granite stone, 14 x 14 x 6 ins., lying on the ground,
marked $\frac{1}{4}$ on one face. No accessories to cor.

At exact position of old cor. re-set stone 8 ins. in the
ground with $\frac{1}{4}$ on W. face.

Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in
the ground and 10 ins. in a mound of stone for
re-established $\frac{1}{4}$ sec. cor., with brass cap marked

S 32 | S 33
 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.
of cor.

Note: On account of underlying rock I am unable to set
post more than 16 ins. in the ground.

The true bearing of this $\frac{1}{2}$ mile is N. 0° 13' W. and the
distance is 40.14 chs.

From the $\frac{1}{4}$ sec. cor., I run

North

30.95 Spur, 85 ft. above $\frac{1}{4}$ sec. cor., projects SE.

Descend.

40.15 Bottom of swale, 15 ft. below spur, drains E. Ascend.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

40.21 Fall 19 lks. E. of the cor. of secs. 28,29,32 and 33 which is a quartzite stone 20 x 10 x 8 ins. lying on the ground, marked with 1 notch on one and 4 notches on cornering edge. No accessories to cor.
At exact postion of old cor. re-set stone 15 ins. in the ground, marked with 1 notch on S. and 4 notches on E. edge, raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
The true bearing of this ¼ mile is N.0°16'W., and the distance is 40.21 chs.
Land, low rolling foot hills draining E.
Soil, 3rd. rate; light, dry, brown clay mixed with gravel and rocks on gravelly and rocky sub-soil.
No timber.
Undergrowth, shadscale and short sage brush.

November 11,1915.

Howard W. Miller

U. S. Surveyor

Nov.12: For solar obsn. see line bet. secs. 31 and 32.
From cor. secs. 28,29,32 and 33, I run West, retracing bet. secs. 29 and 32.
40.00 No trace of old ¼ sec. cor. can be found.
Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and 14 ins. in a mound of stone for ¼ sec. cor. with brass cap marked

S 29
¼

S 32
1915

raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

Note: On account of underlying rock I am unable to set post more than 12 ins. in the ground.

Thence I run

East, resurveying bet. secs. 29 and 32

Over mountainous land, through dense undergrowth of shadscale.

Gradually descend over rough, rocky SE. slope.

11.04 Head of ravine, 140 ft. below $\frac{1}{2}$ sec. cor., drains SW.

Ascend abruptly over W. slope.

15.65 Spur, 80 ft. above ravine, projects SE.

Gradually descend along rocky NE. slope.

30.50 Base of descent and swale, 115 ft. below spur, drains E.

Thence over low rolling hills.

40.00 The cor. of secs. 28, 29, 32 and 33.

Land, mountainous and low rolling hills.

Soil, 4th. rate; gravelly, rocky and some hard, dry brown clay on gravelly and rocky sub-soil.

No timber.

Undergrowth, shadscale.

Nov. 12: At this sec. cor., I set off $17^{\circ}32'S.$, on the decl. arc, and at 11h. 44m. a.m. l.m.t., obs. the sun on the mer.; the resulting lat. is $39^{\circ}50'$.

Nov. 12, 1915.

Isaac Hayes

U. S. Transitman.

Nov. 11: For solar obsn. see line bet. secs. 25 and 30, W. bdy. T.11 S., R.6 W.

From cor. secs. 28, 29, 32 and 33, I run

North, retracing bet. secs. 28 and 29.

Gradually ascend over low rolling hills draining E., through dense undergrowth of shadscale and short sage brush.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

- 24.75 Spur, 60 ft. above sec. cor., projects E. and
Descend.
- 34.15 Gully, 40 ft. below spur, drains E.
Ascend 45 ft. to
- 40.30 On S. slope of ridge,
Fall 14 lks. E. of the $\frac{1}{4}$ sec. cor. which is a gray
granite stone, 20 x 16 x 6 ins., lying on the ground,
marked $\frac{1}{4}$ on one face. No accessories to cor.
At exact position of old cor. re-set stone 15 ins. in
the ground with $\frac{1}{4}$ on W. face.
Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in
the ground and 10 ins. in a mound of stone for re-
established $\frac{1}{4}$ sec. cor., with brass cap marked

S 29 S 28
 $\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of
cor.

Note: On account of underlying rock I am unable to set
post more than 16 ins. in the ground.

The true bearing of this $\frac{1}{2}$ mile is N. $0^{\circ}12'W.$, and the
dist. is 40.30 chs.

From $\frac{1}{2}$ sec. cor., I run

North

7.45 Top of spur, 90 ft. above $\frac{1}{4}$ sec. cor., projects NE.

Descend over NW. slope.

20.25 Ravine, 130 ft. below spur, drains NE.

Ascend.

24.80 Spur, 15 ft. above ravine, projects NE.

Descend over NW. slope.

40.00 At foot of hills, 95 ft. below spur, bears N. $50^{\circ}W.$ and
S. $50^{\circ}E.$

Fall 56 lks. W. of the cor. of secs. 20, 21, 28 and 29
which is a porphyry stone, 16 x 12 x 2 ins., lying

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

on the ground, marked with 2 notches on one and 4 notches on cornering edge. No accessories to cor.

At exact position of old cor. re-set stone 10 ins. in the ground marked with 2 notches on S. and 4 notches on E. edge, raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

The true bearing of this $\frac{1}{2}$ mile is N. $0^{\circ}48'E.$, and the distance is 40.00 chs.

Land, hilly, near E. end of range of mountains.

Soil, 4th. rate; gravelly, rocky and disintegrated shales of granite and quartz formation on hard, baked clay and rock sub-soil.

No timber.

Undergrowth, short shadscale and sage brush.

West, retracing bet. secs. 20 and 29.

40.00 No trace of old $\frac{1}{2}$ sec. cor. can be found. Set temp. $\frac{1}{2}$ sec. cor.

November 11, 1915.

Howard Miller

U. S. Surveyor.

Nov. 12: For solar obsn. see line bet. secs. 31 and 32.

From temp. $\frac{1}{2}$ sec. cor. bet. secs. 20 and 29, I continue

West.

80.00 No trace of the cor. of secs. 19, 20, 29 and 30 can be found. Set temp. point.

From temp. cor. secs. 19, 20, 29 and 30, I run

North, retracing bet. secs. 19 and 20.

40.00 No trace of old $\frac{1}{2}$ sec. cor. can be found.

80.00 No trace of cor. secs. 17, 18, 19 and 20 can be found.

Set temp. point.

November 12, 1915

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

Isaac Hayes

U.S.S. Transitman

November 10: For solar obsn. see S. bdy. sec. 35,
Second Standard Parallel South, R.7 W., recorded in
notes of subdivision of T.11 S., R.7 W.

From cor. of secs. 18 and 19 on the W. bdy. of the tp.
heretofore described, I run

East, retracing bet. secs. 18 and 19

39.80 No trace of $\frac{1}{4}$ sec. cor. can be found.

79.80 No trace of the cor. of secs. 17, 18, 19 and 20 can be
found. Set temp. point.

From temp. point for cor. secs. 17, 18, 19 and 20, I run
East, retracing bet. secs. 17 and 20

39.86 No trace of $\frac{1}{4}$ sec. cor. can be found.

81.04 Fall 65 lks. N. of the cor. of secs. 16, 17, 20 and 21

which is a quartzite stone, 14 x 10 x 10 ins. above
ground firmly set, marked with 4 notches on E. and 3
notches on S. edge. No accessories to cor.

I return and adjust temp. position for cor. secs. 17, 18,
19 and 20, on E. and W. line 66 lks. E. and $32\frac{1}{2}$ lks.

S. of point already set.

Storm of snow prevents field work at 3:30 p.m. this date.

November 10, 1915.

Howard W. Miller

U. S. Surveyor.

Nov. 12: For solar obsn. see line bet. secs. 31 and 32

From temp. cor. secs. 17, 18, 19 and 20 set 80.00 chs. N.

Retracement and re-survey of subdivision of T.11 S., R.6 W.

chains

of the temp. cor. secs. 19, 20, 29 and 30, I run North, retracing bet. secs. 17, and 18.

.69 $\frac{1}{2}$ Fall 23 lks. E. of the adjusted position for cor. secs. 17, 18, 19 and 20 set on E. and W. line.

40.00 No trace of the old $\frac{1}{2}$ sec. cor. can be found.

81.30 Intersect the cor. of secs. 7, 8, 17 and 18 which is a conglomerate quartz stone 8 x 8 x 3 ins., lying on the ground marked with 4 notches on one and 5 notches on cornering edge. No accessories to cor.

At exact position of old cor, re-set stone 4 ins. in the ground marked with 5 notches on E. and 4 notches on S., edge, dig pits, 18 x 18 x 12 ins. in each sec., 5 $\frac{1}{2}$ ft. dist.; raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

November 12, 1915

Isaac Hayes

U. S. Transitman.

Nov. 17: For solar obsn. see line bet. secs. 19 and 30
From the temp. cor. of secs. 19, 20, 29 and 30 a point set 160.00 chs. S. of the cor. of secs. 7, 8, 17 and 18 bears N. 1.30 chs. By proportionate measurement from the cor. of secs. 7, 8, 17 and 18 and the cor. of secs. 20, 21, 28 and 29 I restore the cor. of secs. 19, 20, 29 and 30, 43 $\frac{1}{3}$ lks. N. of the temp. cor. secs. 19, 20, 29 and 30 as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 19, 20, 29 and 30, with brass cap marked

T 11 S	R 6 W
S 19	S 20
S 30	S 29

1915

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

from which

A cedar, 16 ins. diam., bears S:76°W., 6.75

chs., marked T 11 S R 6 W S 30 B T

No other trees within limits, raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

The true bearing of the line bet. secs. 20 and 29 is

S.89°41'E. and the distance is 80.00 chs.

Thence I run

S.89°41'E., resurveying bet. secs. 20 and 29

Gradually ascend over rolling land sloping and draining SW., through short undergrowth of shadscale and sage brush.

40.00 Porportionate measurement.

Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and 14 ins. in a mound of stone for ¼ sec. cor., with brass cap marked

S 20

¼

S 29

1915

raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

Note: On account of underlying rock I am unable to set post more than 12 ins. in the ground.

46.90 Road, bears N.70°E. and S.70°W.

50.45 Road, bears NE. and SW.

52.05 Wash, 8 lks. wide, 2 ft. deep, course SW.

68.05 Enter N. end of low rolling hills, bears NE. and SW.

Ascend.

73.10 Low spur, 35 ft. above wash, projects N.E.

Gradually descend.

80.00 The cor. of secs. 20, 21, 28 and 29.

Land, rolling and low rolling hills, general drainage SW.

Soil, light, dry, warm sandy clay mixed with gravel

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

and rock on hard, dry clay and rock sub-soil, 3rd.

rate.

No timber.

Undergrowth, short shadscale and sage brush.

The distance between the restored cor. of secs. 19, 20, 29 and 30 and the cor. of secs. 7, 8, 17 and 18 is 160.867 chs. and the bearing is north. I return to the temp. cor. of secs. 17, 18, 19 and 20 set 80.00 chs. N. of the temp. cor. secs. 19, 20, 29 and 30 and set a point for adjusted position for cor. of secs. 17, 18, 19 and 20, 86.6 lks. N., this point being position for sec. cor. on N. and S. The adjusted position for cor. secs. 17, 18, 19 and 20 on the E. and W. line bears 23 lks. W. and 17.1 lks. S., therefore in accordance with pamphlet for restoration of lost and obliterated cors. I restore cor. secs. 17, 18, 19 and 20, 23 lks. W. of this point as follows:

Set a quartzite stone 16 x 9 x 4 ins., 12 ins. in the ground for cor. of secs. 17, 18, 19 and 20, marked with 3 notches on S. and 5 notches on E. edge, raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

The true bearing of the line bet. secs. 19 and 20 is N. $0^{\circ}10'$ W. and the distance is 80.433 chs.

The true bearing of the line bet. secs. 17 and 20 is S. $89^{\circ}39'$ E. and the distance is 80.38 chs.

The true bearing of the line bet. secs. 18 and 19 is N. $89^{\circ}53'$ W. and the distance is 80.46 chs.

The true bearing of the line bet. secs. 7 and 8 is N. $0^{\circ}10'$ E. and the distance is 80.433 chs.

Nov. 17, 1915

From the restored cor. of secs. 19, 20, 29 and 30, I run

N. $0^{\circ}10'$ W., on resurvey line bet. secs. 19 and 20

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

Over rolling land draining SW., through dense undergrowth of shadscale.

8.87 Wash, 20 lks. wide, 4 ft. deep, course SW.

24.77 Wash, 10 lks. wide, $1\frac{1}{2}$ ft. deep, course SW.

40.21 Porportionate measurement

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 19 S 20

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

51.00 Wash in small gully, 10 lks. wide, 3 ft. deep, course SW.

80.433 The cor. of secs. 17, 18, 19 and 20.

Land, rolling, drains SW.

Soil, gravelly and disintegrated shales mixed with light, dry brown clay on hard clay and gravel sub-soil, 3rd. rate.

No timber.

Undergrowth, shadscale.

S.89°39'E., resurveying bet. secs. 17 and 20

Over rolling land draining SW., through short undergrowth of shadscale and sage brush.

40.19 Porportionate measurement

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 17

S 20

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

47.65 Wash, 10 lks. wide, 2 ft. deep, course S.10°W.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

59.60 Wagon road from Eureka, Utah to Erickson's ranch, bears NW. and SE.

80.38 The cor. of secs. 16, 17, 20 and 21

Land, rolling, SW. exposure.

Soil, 3rd. rate; gravelly and quartzite rock surface mixed with dry, fine brown clay on hard dry clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

N. 89° 53' W., resurveying bet. secs. 18 and 19

Over rolling land draing SW., through short undergrowth of shadscale and sage brush.

28.80 Wash, 10 lks. wide, 2 ft. deep, course SW.

40.33 Porportionate measurement

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 18

$\frac{1}{4}$

S 19

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

50.10 Wash, 10 lks. wide, 1 ft. deep, course SW.

80.46 The cor. of secs. 18 and 19 on the W. bdy. of the Tp. heretofore described.

Land, rolling, general SW. exposure and drainage

Soil, 3rd. rate; gravelly and light, dry, fine, warm brown clay on hard baked clay and gravel sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

Retracement and resurvey of subdivision of T.11 S., R.6 W.

chains

N.0°10'E., resurveying bet. secs. 17 and 18

Over rolling land draining SW., through dense undergrowth of shadscale.

26.95 Wash, 15 lks. wide, 1 ft. deep, course SW.

40.21 Porportionate measurement

Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground and 10 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. with brass cap marked

S 18 | S 17
 $\frac{1}{2}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Note: On account of underlying rock I am unable to set post more than 16 ins. in the ground.

69.65 Wagon road from Eureka, Utah to Erickson's ranch, bears NW. and SE.

80.433 The cor. of secs. 7, 8, 17 and 18.

Land, rolling, general SW. exposure and drainage.

Soil, 3rd. rate; light, dry, sandy clay mixed with gravel and streaked with rock on hard, dry clay and rocky sub-soil.

No timber.

Undergrowth, shadscale and sage brush.

Nov. 17, 1915

Howard W. Miller

U. S. Surveyor.

Subdivision of T.11 S., R.6 W.

chains

November 12: At 8h. 44m. a.m. l.m.t., I set off 39°49' on the lat. arc; 17°29'S., on the decl. arc; and determined a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of the Tp. heretofore described

Thence I run

North, on a random line bet. secs. 31 and 32.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.00 Set temp. cor. secs. 29, 30, 31 and 32.

Thence

East, on a random line bet. secs. 29 and 32

39.64 Fall 52 lks. S. of the $\frac{1}{2}$ sec. cor. This falling is out of limits, I therefore begin at the $\frac{1}{2}$ sec. cor. and run

West, on true line bet. secs. 29 and 32

Over rough, rocky mountainous land through dense undergrowth of shadscale. Ascend.

.10 Top of ridge spur, bears N. and S.

Descend abruptly.

13.80 Base of mountain, bears NW. and SE.

Thence gradually descend over gently rolling land sloping W.

39.64 535 ft. below ridge.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32, with brass cap marked

T 11 S	R 6 W
S 30	S 29
S 31	S 32

1915

dig pits, 18 x 18 x 12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., raise a mound of stone and earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and gently rolling, general W. exposure.

E. 13.80 chs. rough mountainous land, soil 4th. rate, rocky and gravelly of quartz formation with some

Subdivision of T.11 S., R.6 W.

chains

hard dry clay on rocky sub-soil. W. 25.84 chs. gently rolling land, soil, 3rd. rate, gravelly and light, dry sandy clay on hard clay and gravel sub-soil.

No timber:

Undergrowth, shadscale.

South, on true line bet. secs. 31 and 32

Gradually descend over gently rolling land, through dense short undergrowth of shadscale.

30.17 Road, bears N. 75° W. and S. 75° E.

40.16 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 31 | S 32

$\frac{1}{4}$

1915

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.

45.90 Leave gently rolling enter mountainous land; bears NW. and SE. Ascend.

77.85 Point of spur, 105 ft. above base of mountain, falls E. Gradually descend.

80.32 The cor. of secs. 5, 6, 31 and 32.

Land, gently rolling and mountainous.

N. 45.90 chs. gently rolling, S 34.42 chs. mountainous.

Soil, gently rolling land, light, dry warm sandy clay mixed with gravel on hard, dry clay and gravel sub-soil, 2nd. rate; soil mountainous part, rocky of quartz formation on rocky and hard clay sub-soil, 4th. rate.

No timber.

Undergrowth; shadscale.

Subdivision of T.11 S., R.6 W.

chains

From the cor. of secs. 29, 30, 31 and 32, I run

West, on a random line bet. secs. 30 and 31

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.69 Intersect W. bdy. of the Tp. 14 lks. N. of the cor. of
secs. 25, 30, 31 and 36 heretofore described.

Thence

N. $89^{\circ}54'E.$, on a true line bet. secs. 30 and 31

Gradually ascend over gently rolling land through dense
undergrowth of shadscale.

30.69 Road, bears NW. and SE.

40.69 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground for $\frac{1}{4}$ sec. cor., with brass cap marked

S 30
 $\frac{1}{2}$

S 31
1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of
cor.

64.80 Wash, 20 lks. wide, $1\frac{1}{2}$ ft. deep, course S.

75.79 Old road, bears N. $10^{\circ}E.$ and S. $10^{\circ}W.$

80.69 The cor. of secs. 29, 30, 31 and 32

Land, gently rolling, W. exposure and drainage.

Soil, 2nd. rate; light, dry, warm sandy clay mixed with
gravel on hard, dry clay sub-soil.

No timber.

Undergrowth, shadscale.

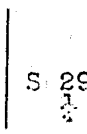
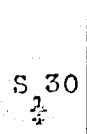
November 12, 1915

Isaac Hayes

U. S. Transitman

Nov. 17: For solar obsn. see line bet. secs. 19 and 30

Subdivision of T.11 S., R.6 W.

chains	
	North, on a random line bet. secs. 29 and 30
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.79	Intersect E. and W. line 21 lks. W. of the cor. of secs. 19, 20, 29 and 30.
	Thence
	S. $0^{\circ}09'$ W., on a true line bet. secs. 29 and 30
	Over gently rolling land sloping W., through dense undergrowth shadscale and short sage brush.
9.79	Wash, 15 lks. wide, $1\frac{1}{2}$ ft. deep, course SW.
10.95	Road, bears N. 80° E. and S. 80° W.
40.39 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground and 8 ins. in a mound of stone for $\frac{1}{4}$ sec. cor. on W. bdy. sec. 29, with brass cap marked
	<div style="text-align: center;">  <p>S 29 $\frac{1}{4}$</p> <p>1915</p> </div>
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
	Note: On account of underlying rock, I am unable to set post more than 18 ins. in the ground.
40.79	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{3}{4}$ sec. cor., E. bdy. sec. 30, with brass cap marked
	<div style="text-align: center;">  <p>S 30 $\frac{3}{4}$</p> <p>1915</p> </div>
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.49	Road, bears N. 20° E. and SW. Joins road from the S. about 5 chs. SW.
80.79	The cor. of secs. 29, 30, 31 and 32.
	Land, gently rolling, W. exposure and drainage.

Subdivision of T.11 S., R.6 W.

chains

Soil, 3rd. rate; light, dry, warm sandy clay mixed with gravel and streaked with rock on hard, dry clay and gravel sub-soil.

No timber.

Undergrowth, shadscale.

November 17: At 9h. 15m. a.m. l.m.t., I set off $39^{\circ}50'$ on the lat. arc; $18^{\circ}49'S.$, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 19, 20, 29 and 30.

(Knowing that my line bet. secs. 19 and 30 will not close within limits on the west bdy. of the Tp.)

I run

S. $89^{\circ}54'W.$, on true line bet. secs. 19 and 30

Over gently rolling land draining SW. through dense short undergrowth of shadscale and sage brush.

4.95 Wash, 10 lks. wide; 3 ft. deep, course SW. A few scattering cedar trees along wash.

25.15 Wash, 10 lks. wide, 4 ft. deep, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. on the N. bdy. sec. 30, with brass cap marked

S 30

$\frac{1}{4}$

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

40.50 Porportionate distance to the record survey of the N. bdy. sec. 19.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. on the S. bdy. sec. 19, with brass cap marked

Subdivision of T.11 S., R.6 W.

chains

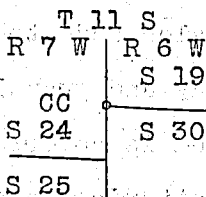
S 19

1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

54.80 Wash, 5 lks. wide, 2 ft. deep, course S.

80.80 Intersect W. bdy. of the Tp. 76 lks. S. of the cor. of secs. 19, 24, 25 and 30, later made an angle point cor., heretofore described. At intersection Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 19 and 30, with brass cap marked



1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

A cor. for secs. 24 and 25, T.11 S., R.7 W. has been set on this bdy., and as a closing cor. was necessary for secs. 19 and 30, the cor. of secs. 19, 24, 25 and 30 is changed to an angle point cor., for description of cor. see W. bdy. of T.11 S., R.6 W.

Land, gently rolling; SW. drainage.

Soil, 3rd. rate, light, dry, warm sandy clay mixed with gravel on hard, dry, brown clay and gravel sub-soil.

No timber.

Undergrowth, shadscale.

Nov. 17: Not on line at noon this date, obsns. for lat. are impossible.

Nov. 17, 1915.

Howard Miller

U. S. Surveyor.

General Description

That portion of the township surveyed under this assignment contains two varieties of land, i.e. gently rolling and mountainous. The mountainous portion is situated in the E. $\frac{1}{2}$ of sec. 29 and portions of secs. 31 and 32, it comprises small sharp ridges and spurs with steep slopes that rise abruptly from the surrounding valley. The soil is very rocky of quartzite formation mixed with some light brown clay on a hard clay, gravel and rock sub-soil.

The remaining part of the township is gently rolling land having a gentle W. exposure and draining SW. The soil is a light, dry, warm, brown sandy clay mixed with gravel and loose shales and streaked with rocks on a hard, dry, baked clay and gravel sub-soil.

The gently rolling land is covered with a short undergrowth of shadscale and scattering sage brush while on the mountains scarcely any undergrowth is found.

There is no water in the township.

There are no settlers in the township.

A shaft located about 5 chs. N. of the $\frac{1}{2}$ sec. cor. bet. secs. 29 and 32 is approximately 200 ft. deep and the contact shows indications of copper, lead and silver. I also find other mineral prospects in the mountains.

The gently rolling land can be farmed if water could be secured but at present is used only for winter grazing of sheep.

Howard Miller

U. S. Surveyor

Ernest Hayes

U. S. Transitman.

BOOK A-418

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
 _____, U. S. Surveyor, during the periods and in the capacities
 stated opposite our several signatures, in surveying all those parts or portions of _____

of the Meridian, in the State of
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

[illegible]

Subscribed and certified to before me on the dates of the final service as shown above.

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, Isaac Hayes, U.S. Transitman, ~~xxxxxx~~, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 25th day of June, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of retracement and resurvey south boundary and subdivision and survey of south boundary and subdivision of T.11 S., R.6 W.

_____ of the Salt Lake Base and _____ Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Isaac Hayes
U. S. Transitman ~~xxxxxx~~

Subscribed by said Isaac Hayes, and sworn to before me }
this 15th day of May, 191 6



Frederick Broadbent
County Clerk

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 27, 1916

The foregoing field notes of the ~~xxxxxx~~ retracement and resurvey south boundary and subdivision and survey of south boundary and subdivision of T.11 S. R. 6 W. S.L.B. & M., Utah

executed by Howard W. Miller and Isaac Hayes under ~~the~~ their special instructions dated June 25, 1915, having been critically examined, and the necessary corrections and explanations made, the ~~said~~ field notes, and the surveys they describe, are hereby approved.

A. D. Hansen
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in T.11 S. R.6 W. S.L.B. & M. Utah, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

BOOK A-418

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability, and Isaac Hayes, U. S. Transitman
Howard W. Miller, U. S. Surveyor, during the periods and in the capacities
stated opposite our several signatures, in surveying all those parts or portions of Retracement and
resurvey S. boundary and subbdivision and survey of S. boundary and
subdivision of T.11 S., R.6 W.,

of the Salt Lake Base and Meridian, in the State of Utah
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

NAME.	PERIOD OF SERVICE.		CAPACITY.
	BEGUN.	ENDED.	
Rufus W. Riley	Nov. 10, 1915	Nov. 17, 1915	chainman
Edward Jones	"	"	"
Carl Ray	Nov. 12, 1915	Nov. 12, 1915	"
William Friedrichs	"	"	"
Edward L. Lee	Nov. 10, 1915	Nov. 17, 1915	flagman
Leslie A. King	Nov. 12, 1915	Nov. 12, 1915	"
James T. Grogan	Nov. 10, 1915	Nov. 17, 1915	cornerman
Harvey Fox	Nov. 12, 1915	Nov. 12, 1915	"

Subscribed and certified to before me on the dates of the final service as shown above.

Howard W. Miller
U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, Howard W. Miller, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 25th. day of June, 1915, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of retracement and resurvey south boundary and subdivision and survey of south boundary and subdivision of T.11 S., R.6 W.

_____ of the Salt Lake Base and _____ Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Howard W. Miller
U. S. Surveyor.

Subscribed by said Howard W. Miller and sworn to before me
this 4th day of February, 1916



L. C. Thoresen
U. S. Surveyor General

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 27, 1916

The foregoing field notes of the ~~XXXXXX~~ retracement and resurvey south boundary and subdivision and survey of south boundary and subdivision of T. 11 S. R. 6 W. S. L. B. & M., Utah

executed by Howard W. Miller and Isaac Hayes
under ^{their} special instructions dated June 25, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

L. C. Thoresen
U. S. Surveyor General.

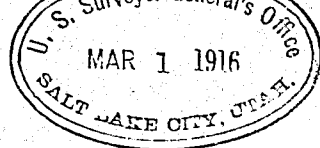
I certify that the foregoing transcript of the field notes of the above-described surveys in T. 11 S. R. 6 W. S. L. B. & M., Utah, has been correctly copied from the original notes on file in this office.

Blank

Page

Blank

Page



BOOK A-418

FIELD NOTES

RESURVEY
OF THE ~~SURVEY~~ OF THE

COLORADO GUIDE MERIDIAN, Through Tps. 28 S., between Rs. 25 and 26 E.,
and the

RETRACEMANT AND RESURVEY OF THE

NORTH AND SOUTH BOUNDARIES

and the

RESURVEY AND SURVEY OF THE

SUBDIVISIONS OF

T. 28 S., R.25 E.,

Of the Salt Lake Base and Meridian,

In the State of Utah.

EXECUTED BY

THOMAS C. RATHBONE,

In the capacity of U.S. Transitman, ~~Surveyor~~, under instructions dated July 20, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 42, Utah, which were approved by the Commissioner of the General Land
Office, September 25, 1915

Survey commenced August 31, 1915

Survey completed October 12, 1915

BOOK A-418

INDEX DIAGRAM.

Township 28 South, Range 25 East, S.L.B. & M.

6	110	5	104	4	99	3	95	2	90	1	37
108		107		102		98		94		89	
7	105	8	101	9	97	10	92	11	87	12	35
86		83		80		77		73		69	
18	84	17	81	16	78	15	75	14	71	13	34
68	66	17		15	5	58		61		63	
19	67	20	18	21	4	22	59	23	62	24	32
21		20				7		55		56	
30		29		28		27	8	26	53	25	31
								11		51	
31		32		33		34	15	35	13	36	28
								23	24	25	26

Retracement of Subdivisions of T.28 S., R.25 E.

Chains

Survey commenced August 31, 1915, and executed with a Young & Son's transit, No. 7192, equipped with a Smith solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

Five chain steel tapes and clinometers were used in measuring all distances, and the reduced horizontal distances only appear in these field notes. The tape was frequently tested by comparing it with a standard one chain tape kept for this purpose only.

The instruments were approved for use on this survey by the Ass't. Supervisor of Surveys for this district.

On account of the elevation of the country on the Tp., which ranges from 6,000 to 8,000 ft. above sea-level, I apply a coefficient of 0.77 to all mean refractions in declinations.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during the a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At my camp, which is situated in the center of sec. 22, T.28 S., R.25 E., latitude $38^{\circ}22'N.$, longitude $109^{\circ}11'W.$, I set off $38^{\circ}22'$ on the lat. arc, $8^{\circ}49'N.$ on the decl. arc, and at $4^{h}00^{m}p.m.$, l.a.t., determine a meridian with the solar, and mark a point thereof on a ledge about 20 chs. N. of my station.

At $8^{h}56.7^{m}p.m.$, l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tally pin driven in the ground about 20 chs. N. of my station.

August 31, 1915.

Retracements of Subdivisions in T.28 S., R.25 E.

Chains

September 1: At 7 a.m., l.a.t., I lay off the azimuth of Polaris, $1^{\circ}26'$ to the west, and mark the meridian thus determined by chiselling a notch on the ledge which practically coincides with the mark determined by the solar.

At 8^{h00^m} a.m., l.a.t., I set off $38^{\circ}22'$ on the lat. arc; $8^{\circ}33\frac{1}{2}'N.$ on the decl. arc, and mark a point in the meridian determined with the solar by a groove on the ledge 20 chs. N. of my station; this mark falls about 1 inch east of the meridian established by the Polaris observation.

The solar apparatus, by a.m. and p.m. observations defines positions for meridians, respectively coinciding with, and about $0'13''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8^{h15^m} a.m., is $N.15^{\circ}55'W.$; the angle thus determined gives the mag. decl. $15^{\circ}55'E.$

I commence at the old cor. of secs. 21, 22, 27 and 28, which is a gray sandstone, $12 \times 10 \times 3$ ins. above ground, loosely set in small mound of stones, marked with 2 notches on the S. edge and 3 on the E. edge, with dim remains of old pits. I reset stone firmly, and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, west of the cor. The cor. stands under E. and W. wire fence, and 10 lks. E. of the junction of wire fence from the north. At this cor., I set off $38^{\circ}22'$ on the lat. arc, $8^{\circ}32\frac{1}{2}'N$ on the decl. arc, and at 8^{h45^m} a.m., l.a.t., determine a meridian with the solar.

Thence I run North, retracing bet. secs. 21 and 22, over rolling land, through sagebrush and scattered patches of oak brush, along the west side of the La Sal Ranger Station pasture, descending gradually.

Retracements of Subdivisions of T 28 S., R. 25 E.

Chains

40.00 After diligent search, I am unable to find any trace of the old $\frac{1}{4}$ sec. cor.

80.74 Fall 42 lks. E. of a gray sandstone, 16 x 10 x 5 ins., lying loose in a small mound of stones, marked with three notches on two adjacent edges; with dim remains of old pits.

From this stone, another sandstone, 7 x 9 x 6 ins. above ground, firmly set, marked with three notches on the E. edge and 3 on the S. edge, not witnessed, bears S. 65° 46' W., 5.82 chs. dist.

Note:- Settlers inform me that there are several places where double cors. have been found; and that there appears to exist two distinct systems of surveys, the above tie showing approximately the relative positions of the two. To determine which is the authentic cor., I retrace E. bet. secs. 15 and 22 from the first described cor., and at 5.05 chs. cross La Sal Cr., course SE., and there is no possibility of the creek ever having changed its bed. From the lastly described stone, I retrace E., and cross La Sal Cr. at 12.90 chs. The old notes, going E. bet. secs. 15 and 22, call for La Sal Cr. at 5.00 chs. I therefore accept the first described cor. as the true cor. of secs. 15, 16, 21 and 22, I re-set stone, 10 ins. in the ground, with the three notches on the S. and E. edges, at the same point, and Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. into the ground, for re-established cor. of secs. 15, 16, 21 and 22, with brass cap marked

T 28 S	R 25 E
S 16	S 15
S 21	S 22

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor.

Note:- This cor. later changed to the cor. of two secs.

-4-
Retracement of the Subdivisions of T.28 S., R.25 E

Chains.

I obliterate all traces of the old stone marked erroneously for the cor. of secs. 15, 16, 21 and 22, found at 5.82 chs. S.65°46'W. of here.

September 1: At the true sec. cor., I set off 8°29½'N. on the decl. arc, and at 12^h00^m l.a.t., observe the sun on the meridian; the resulting lat. is 38°22½'

From this cor. the chimney on the Forest Ranger Cabin bears S.34°20'E.

I return to the old cor. of secs. 21, 22, 27 and 28, Thence,

N.0°18'W. on true line, bet. secs. 21 and 22. resurveying.

Over rolling land, desc. gradually through sagebrush and scattered patches of oak brush, along the west fence of the La Sal Ranger Station Pasture

14.00 Draw, 20 ft. below the cor., drains S. 60° E., Asc.

20.00 Low ridge, 25 ft. above the draw, Bears N.60° W. and S. 60° E. Desc.

24.85 Wire fence, bears E. and W., joins the N. and S. fence 3 lks. west of line.

40.37 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. into the ground, for ¼ sec. cor., with brass cap marked

S 21½ | S 22

1915

raise a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor.

40.39 Wire fence, bears E. and W.. The NW. cor. of the Forest Ranger Station pasture bears W., 7 lks. dist.

51.00 Wash, 30 ft. below the ridge, drains S.40° E., asc. over left bank, thence continue gradual desc.

70.75 Road, from the La Sal Pass and the Geyser saw mill, to the Ranger Station, bears NW. and SE.

80.74 The re-established cor. of secs. 15, 16, 21 and 22.

Land, rolling, general southeasterly drainage into La Sal Creek.

Soil, sandy gravelly dry loam on stony sub-soil, 3rd. rate

Retracements and Resurveys of Subdivisions of T.28 S.R.25 E

Chains

Undergrowth, sagebrush and scrub oak,
No timber.

North, retracing, bet. secs. 15 and 16.

7.50 La Sal Cr., course SE. This topography verifies my decision as to the correct old cor. of secs. 15, 16, 21 and 22, the old field notes calling for the creek at 8.00 chs. The creek is 14.50 chs. on the line north of the erroneous stone, which I destroyed.

42.37 Fall 1.59 chs. E. of the old $\frac{1}{4}$ sec. cor., which is a sandstone, 14 x 10 x 8 ins., lying loose in a mound of stones, properly marked $\frac{1}{4}$ on one face.

The old survey was discontinued here.

As there are no entries in the fracl. secs. 15 and 16, and as this falling answers to a course in excess of the allowable limits, I will disregard this line in extending new surveys.

I obliterate marks on the stone, but leave it standing in place, setting it 8 ins. into the ground. For the tie from this stone to the new $\frac{1}{4}$ sec. cor. set later, see line bet. secs. 15 and 16.

From the re-established cor. of secs. 15, 16, 21 and 22, I run

East, retracing bet. secs. 15 and 22.

Over rolling land, desc. gradually through sagebrush and scrub oaks.

1.00 Desc. over right bank of La Sal Cr. bottom, bears NW. and Se.

2.10 Foot of desc., 20 ft. below top, bears NW. and SE., thence over level-meadow-land in La Sal Cr. bottom.

5.05 La Sal Cr., 10 lks wide, 3 ins. deep, course S.45° E., good water, rocky bottom 5 ft. below pasture; fringe of willows along the creek. Thence continue over meadow land.

Retracements and Resurveys of Subdivisions in T.28 S., R.25 E.

Chains
 15.50 Leave meadow land, bears NW. and SE., asc. to spur.
 18.00 Spur, 40 ft. above creek, projects S., 10 chs. Desc.
 23.20 Gulch, 30 ft. below spur, drains S.20° W., asc.
 37.05 Fall 26 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a granite
 10 x 8 x 4 ins., lying loose in a small mound of stones,
 marked with $\frac{1}{4}$ on one face; no other accessories. I re-
 establish cor. at same point, as follows:
 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. into
 the ground, for re-established $\frac{1}{4}$ sec. cor., with brass
 cap marked

S 15
 $\frac{1}{4}$ ✓

S 22

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 N. of the cor. Post is set alongside old stone.

Note:- This cor. is subsequently changed to the cor. of
 one sec. See line bet. secs. 15 and 16.

The true course of this half mile is therefore N.89°36'E.
 and the true dist. 37.05 chs.

From this cor. a stone erroneously marked $\frac{1}{4}$ on one face
 bears S.33°45'W., 4.39 chs. dist. I obliterate the stone.

Land, rolling, NE. and SW. slopes into La-Sal Cr.

Soil, on meadow bottom, dense, rich moist black sandy loam
 1 ft. or more deep on gravelly clay sub-soil, 1st. rate;

Soil on slopes, light sandy gravelly loam on stony sub-
 soil, 2-3rd. rate.

Sage and oak brush undergrowth, willows along the creek,
 and excellent grazing grasses occur on the half mile.

No timber.

The old line was abandoned at this $\frac{1}{4}$ sec. cor.

September 1, 1915.

September 2; At 8^h 15^m a.m., 1.a.t., I set off 38°22' on the
 lat. arc; 8°12'N. on the decl. arc, and determine a mer-
 idian at the old cor. of secs. 21, 22, 27 and 28, already
 described.

Retracements and Resurveys of Subdivisions in T.28 S., R.25 E.

Chains	
	From this cor., the chimney on the Forest Ranger cabin bears N. 41° 40' E. 1/2 mi. to cor. 17.38
	Thence I run
	East on retracement bet. secs. 22 and 27
	Over nearly level land, desc. gradually along S. side of E. and W. wire fence, along wagon road, bears same, from La Sal to Paradox road.
8.00	Desc. to lower bench land, bears NW. and SE.
13.80	Foot of desc., bears NW. and SE., 50 ft. below cor., leave road, bears W. and S. 80° E., thence over land draining gradually to the NE., through sage brush
35.00	Old irrigation ditch, dry, 4 lks. wide, 2 ft. deep, drains S. 20° E.
35.40	Junction of E. and W. fence with partition fence from the N., bears N. 10 lks. dist.
40.18	Fall 14 lks. S. of the old 1/4 sec. cor., which is a gray sandstone, 10 x 8 x 5 ins. loosely set in small mound of stone, marked 1/4 on one face. I reset stone 8 ins. in the ground, with the 1/4 on the N. face, and dig pits 18 x 18 x 12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of the cor. The true course of this half mile is therefore N. 89° 48' E. and the dist. 40.18 chs. From the 1/4 sec. cor., I run East, retracing bet. secs. 22 and 27
.26	Wire fence bears N. and S., joins E. and W. fence 5 lks. N.
6.50	Desc. over right bank of La Sal Cr. bottom, bears NW. and SE.
6.75	Irrigation ditch, 2 lks. wide, 3 ins. deep, course S. 30° E.
7.50	Foot of desc., 20 ft. below top, bears NW. and SE. Thence over level land in La Sal Cr. bottom, through oak brush.
13.80	La Sal Creek, 20 lks. wide, 5 ins. deep, course S. 30° E., good water; rocky bottom, 2 ft. below bottom land. Dense growth of willows along the creek. Thence asc. grad-

Retracements and Resurveys of Subdivisions in T.28 S., R.25 E.

Chains	ually over bottom land.
20.79	Junction of three fences, from the W., N.36° W., and N.50° E., bears N., 50 lks. dist.
22.78	Forest Service telephone line, from La Sal to Paradox, bears N.50° W., and S.50° E.
26.50	Pole fence, bears N.30° W. and S.30° E. Leave bottom land, bears same, and asc. to spur.
34.00	Spur, 55 ft. above the creek, projects S.20° W., 10 chs. Enter scattering yellow pine timber, bears NW. and SE. Descend.
37.30	Gulch, 40 ft. below spur, drains S. Asc.
40.19	Fall 3 lks. S. of the old cor. of secs. 22, 23, 26 and 27, which is a gray sandstone, 6 x 5 x 18 ins. above ground firmly set in a mound of stones, marked and witnessed as described by the Surveyor General. The old pits are nearly filled in, therefore I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor. The cor. stands on W. slope, 20 ft. above the gulch. The true course of this half mile is therefore N.89°57'E., and the dist. 40.19 chs. Land on the mile, generally rolling and bottom land with SE. drainage. Soil, on the bottom lands, rich dark moist sandy loam, about 2 ft. deep on rocky sandy clay subsoil, 1-2nd. rate. Soil on the remainder, light brown sandy gravelly loam, on stony sub-soil, 2-3rd. rate. Undergrowth, sage and oakbrush, with willows along La Sal Cr., and good grass for grazing. Timber, scattering yellow pine on the E. end of the mile.
8.00	South, retracing bet. secs. 26 and 27 Over rolling rocky land, desc. gradually through scattering yellow pine timber and sage and oak undergrowth. Leave scattering yellow pines bears E. and W., and enter more dense sagebrush, bears same.

Retracemants and Resurveys of Subdivisions in T.28 S., R.25E.

Chains	
9.32	Wood road, bears E. and W., from the main La Sal road to timber.
13.25	Pole fence, bears N.55° E., and S.55° W.
17.20	Bottom of desc. and rocky land, bears NW. and SE., 90 ft. below the cor., thence over nearly level land in bottom of La Sal Cr., also telephone line, bears NW. and SE.
21.00	Road, from the Ranger Station to Stock's ranch and Paradox, bears N.50°W. and S.50°E.
25.00	La Sal Cr. bed, now dry, but running during wet seasons, drains S.45°E. The rocky bed of creek is 20 lks. wide, 100 ft. below the cor.
28.50	Dry wash, 4 lks. wide, 1 ft. deep, drains S.45°E.
34.40	Road, from the Ranger Station to Stock's ranch, bears N.45°W. and S.45°E.
38.00	Dry wash, 5 lks. wide, 3 ft. deep, drains S.50°E.
39.40	Old wire fence bears N.40½°E. and S.40½°W.
39.70	New wire fence bears E. and W., joins the diagonal fence 25 lks. W.
39.71	Fall 15 lks. west of the old ¼ sec. cor., which is a gray sandstone, 8 x 8 x 12 ins. above ground, firmly set, very dimly marked with ¼ on the W. face, mound of stone scattered around the cor. I re-mark stone with ¼ on the west face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of the cor.
	The true course of this half mile is therefore S.0°13'E., and the dist. 39.71 chs.
	From the ¼ sec. cor.,
	South, retracing bet. secs. 26 and 27.
.30	Leave La Sal Cr. bottom land, bears NW. and SE., and asc. over right bank.
2.50	Top of asc., 20 ft. above bottom, bears NW. and SE., thence over nearly level land draining SE.
6.35	Old pole fence bears N.17°W. and S.17°E.
22.00	Wash, 5 lks. wide, 3 ft. deep, drains S.45°E.
23.40	Road, from the La Sal Road to Stock's ranch, bears NW.,

Retracements and Resurveys of Subdivisions in T. 28 S., R. 25 W.

Chains

and 33.

31.42 Road, from La Sal to Stock's Ranch, bears E. and W.

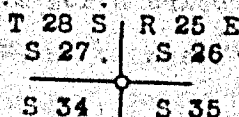
32.39 Old fence bears E. and W.

32.35 Wash, 5 lks. wide; 3 ft. deep, drains S. 10° E. 35.

32.55 NE. cor. of an old log cabin, not inhabited, bears W., 5 lks. dist.

39.70 Fall 15 lks. W. of the old cor. of secs. 26, 27, 34 and 35, which is a pine post, 4 x 4 x 16 ins. above the ground, firmly set, marked S 27 on the NW. face, S 34 on the SW., S 33 on the SE., and T 28 R 25 S 26 on the NE. face. Dim remains of old pits in secs. I re-establish the cor. at the same point as follows:

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. into the ground, for re-established cor. of secs. 26, 27, 34 and 35, with brass cap marked



1915

and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

The true course of this half is therefore S. 0° 13' E., and the dist. 39.70 chs.

Land on the mile, bench and bottom land, with general SE. drainage, into La Sal Cr.

Soil, on bottom land, rich dark fine sandy loam, 1 ft. or more deep on stony clay subsoil, 1-2nd. rate. Soil on the remainder, light brown coarse sandy loam, on stony sub-soil, 2-3rd. rate.

Undergrowth, sage and oakbrush.

Timber, some scattering yellow pines on the north end.

September 2: At the cor. of secs. 26, 27, 34 and 35, I set off 8° 08' N. on the decl. arc. The sun is obscured by clouds at apparent noon, but at 12^h 06^m p.m., l.a.t., I observe the sun on the meridian; the resulting lat. is

Retracements and Resurveys of Subdivisions in T.28 S., R.25 E.

Chains	
	38°21'
	From the re-established cor. of secs. 26, 27, 34 and 35, I run East, retracing bet. secs. 26 and 35
40.00	After diligent search, I am unable to find any trace of the old $\frac{1}{4}$ sec. cor.. Set temp. point.
80.90	Fall 86 lks. N. of the old cor. of secs. 25, 26, 35 and 36, which is a gray sandstone, 18 x 12 x 5 ins. above ground firmly set in a mound of stones marked with one notch on the S. face and one notch on the E. No trace of the bearing tree described by the Surveyor General, but there are dim remains of pits. I therefore raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, west of the cor. Thence, from the cor. of secs. 26, 27, 34 and 35, S. 89°23'E. on true line bet. secs. 26 and 35, resurveying Over nearly level bench land, draining SE., desc. slightly through sagebrush and rabbit brush undergrowth.
2.05	Old ditch, 2 ft. wide, 6 ins. deep, drains S. 20°E.
7.30	Old ditch or washed out road, drains S. 20°E.
14.30	Wire fence, bears N. 43°20'W. and S. 43°20'E. Thence leave sagebrush and rabbit brush, and enter alfalfa field, bears same,
32.80	Leave alfalfa field, bears NW. and SE.
35.00	Old fence line, bears N. 47°W. and S. 47°E.
35.67	Road, from Forest Ranger Station to Stock's Ranch, bears same as old fence.
36.50	Desc. over right bank of La Sal Cr. bottom, bears NW. and SE. Thence over meadow land, leave sagebrush and rabbit brush, bears NW. and SE.
39.00	Bottom of desc., 10 ft. below top, bears NW. and SE., thence over level meadow.
40.45	Set an iron post, 3 ft. long, 1 in. diam., 24 ins. into the ground, for restored $\frac{1}{4}$ sec. cor., with brass cap marked

Chains.

S 26

S 35

1915

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

43.70 Enter dense willows, bear NW. and SE.

45.50 La Sal Cr., 10 lks. wide, 7 ins. deep, course SE. and NE. at bend in creek.

46.30 Same creek, course SE., 6 lks. wide, 6 ins. deep.

47.70 Leave dense willows, bear NW. and SE., thence continue over grassy meadow.

53.09 From this point, Paul Turner's house bears N. 40° E., and Geo. Stock's house bears S. $60\frac{1}{2}^{\circ}$ E.

61.20 Road, from Ranger Station to Stock's ranch, bears N. 20° W. and S. 20° E. Also leave meadow land, bears same, and asc. rocky SW. slope, through sage and rabbit brush.

70.00 Enter scattering yellow pine timber, bears NW. and SE.

75.00 Leave yellow pine timber, bears NW. and SE.

80.90 The cor. of secs. 25, 26, 35 and 36, on SW. slope, 90 ft. above the creek.

Land, rolling bench and bottom land, with general SE. drainage.

Soil, on bottom land, rich, moist, dense sandy loam, 2 ft. or more deep on stony clay subsoil, 1st. rate; on the bench land, light sandy gravelly loam, on stony subsoil, 2-3rd. rate.

Undergrowth, sage and rabbitbrush, and splendid grass for grazing.

Timber, scattering yellow pines on the east end.

From the cor. of secs, 25, 26, 35 and 36, I run South, retracing bet. secs. 35 and 36.

40.00 After diligent search, I am unable to find any trace of the old $\frac{1}{4}$ sec. cor. Set temp. point.

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains 80.00 After diligent search, I am unable to find any trace of the old cor. of secs. 1, 2, 35 and 36. Set a temp. point. (Note:- The cor. is subsequently restored at a point 2.89 chs. S. and 1.65 chs. E. of the temp. point. See line bet. secs. 2 and 35 on S. bdy., for description of cor.)

September 2, 1915.

September 4: For solar observation this day, see line bet. secs. 34 and 35.

From the cor. of secs. 25, 26, 35 and 36, S. $1^{\circ}08'E.$, on true line, bet. secs. 35 and 36, resurveying. Over rolling land, desc. over S. slope, through sagebrush.

4.50 Wire fence, bears N. $29^{\circ}E.$ and S. $29^{\circ}W.$

14.00 Foot of desc., 70 ft. below the cor., bears NW. and SE. Thence over bottom land, drains SE., through sagebrush.

14.04 Enter cattle corral, 1 ch. wide, bears SE. and SW.

14.66 Leave corral, bears NW. and NE.

14.86 Road, from Ranger Station to Stock's ranch, bears E. and W.

16.45 Ditch, 4 lks. wide, 1 ft. deep, drains E.

18.95 Enter dense willows, bear NW. and SE.

19.05 La Sal Cr., 10 lks. wide, 8 ins. deep, course SE., good water, rocky bottom, 80 ft. below the cor.

20.30 Pole fence, bears E. and W., also leave willows, bear same, thence continue over meadow land, asc, slightly.

29.15 Wire fence, bears E. and W. Leave meadow bottom, bears NW. and SE., thence asc. gradually to low ridge.

31.00 Low ridge, 20 ft. above the creek, bears E. and W. Thence desc. gradually to marshy flat.

36.54 Spring branch, 2 lks. wide, 6 ins. deep, course E., 15 ft. below ridge; thence over boggy land.

39.50 Wire fence, bears E. and W., terminates 78 lks. W. of line.

41.45 $\frac{1}{2}$ proportionate measurement: Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for restored $\frac{1}{4}$ sec. cor. on E. bdy. sec. 35, with brass cap mkd.

S 35 $\frac{1}{4}$

1915

and dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft.

Retracement and Resurvey of Subdivisions in T.26 S., R.25 E.

Chains

high, T. of the cor.

From this cor. the chimney on Stock's house bears N. 29° E.

- 42.91 Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. on W. bdy. sec. 36, with brass cap mkd.

S 36

1915

and dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, E. of the cor.

- 58.00 Leave boggy land, bears E. and W., and commence gradual asc. through sage brush, toward Pine Ridge.
- 68.10 Wire fence, bears E. and T., Joins N. and S. fence 1.19 chs. W.
- 79.00 Asc. more rapidly over foot hills, bear E. and W., and enter scattering oak brush, bears same.
- 82.91 On N. slope of Pine Ridge, 110 ft. above the marshy land, The restored cor. of secs. 1, 2, 35 and 36, on the S. bdy. of Tp., hereinafter described.

(Note. For description of cor., see line bet. secs. 2 and 35. on the S. bdy. of Tp.)

Land, bench and bottom land, boggy in part, general E. drainage.

Soil, on slopes, light red sandy and gravelly loam, on stony clay subsoil, 2nd. rate; on the bottom land, soil is a rich, dense black loam, moist, medium texture, in places boggy with standing water, on clay subsoil, 1st. and 2nd. rate.

Undergrowth, sage brush, dense willows along the creek, scrub oaks on the south end, and good grasses for grazing purposes.

No timber.

September 4, 1915.

September 4: At 8^h 00^m a.m., l.a.t., I set off 38° 21' on the lat. arc, 7° 27' N. on the decl. arc, and determine a

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains	meridian with the solar at the restored cor. of secs. 26, 27, 34 and 35, heretofore described. Thence I run South, on blank line, bet. secs. 34 and 35.
40.00	I am unable to find the old $\frac{1}{4}$ sec. cor.
83.50	Fall 86 lks. E. of the old cor. of secs. 2, 3, 34 and 35, on the S. Bdy. of Tp., which is a gray sandstone, 10 x 5 x 10 ins. above ground, loosely set in a mound of stones, and marked and witnessed as described by the Surveyor General. I reset stone firmly in the ground, renew the marks on the B.T.'s, then to completely witness the cor., I raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor. The true course of this mile is therefore S.0°35'W., and the dist., 83.50 chs.
<hr/>	
	September 3: At 2 ^h 00 ^m p.m., l.a.t., I set off 38°22 $\frac{1}{2}$ ' on the lat. arc, 7°44 $\frac{1}{2}$ ' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 15, 16 21 and 22, heretofore described. Thence I run West, retracing bet. secs. 16 and 21. Over rolling bench land, through sagebrush and scattered patches of oak brush.
10.70	Road, from La Sal Pass and the Geyser saw mill, to the Ranger Station, bears NW. and SE.
11.00	Wash, 5 lks. wide, 2 ft. deep, drains SE.
28.50	Wash, 8 lks. wide, 3 ft. deep, drains S ^L .
31.40	Irrigation ditch, now dry, 3 lks. wide, 1 ft. deep, drains SE.
40.98	Fall 28 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a sandstone, or grabute, 13 x 10 x 3 ins., lying loose in a small mound of stones, marked $\frac{1}{4}$ on one face. I reset stone 8 ins. in the ground, with the $\frac{1}{4}$ on the W. face and re-establish the cor. as follows: Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the

Retracement and Resurvey of Subdivisions of T.28 S., R.25 E.

Chains

ground beside the old stone, for $\frac{1}{4}$ sec. cor., with
brass cap marked

S 16
 $\frac{1}{4}$
S 21
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of the cor.

(Note.-This cor. is subsequently changed to the cor. of
sec. 21 only. See line bet. secs. 16 and 17)

The true course of this half mile is therefore N.89°36'W.
and the dist. 40.98 chs.

From the $\frac{1}{4}$ sec. cor., I continue
West, retracing bet. secs. 16 and 21

26.30 Wash, dry., 4nlks. wide, 2 ft. deep, drains SE.

36.65 Road, from the La Sal Road to the Geyser saw mill, bears
N. and S.

38.92 Fall 59 lks. N. of the old cor. of secs. 16, 17, 20 and 21,
which is a granite, 10 x 8 x 5 ins. above ground, firm-
ly set, and marked and witnessed as described by the
Surveyor General. I re-establish the cor. at the same
point, as follows:

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in
the ground beside the old stone, for re-established
cor. of secs. 16, 17, 20 and 21, with brass cap marked

T 28 S R 25 E
S 17 | S 16
S 20 | S 21
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
west of the cor.

(Note- This cor. is subsequently changed to the cor. of
secs. 20 and 21 only. See line bet. secs. 16 and 17.)

The true course of this half mile is therefore S.89°08'W.,
and the dist. 38.93 chs.

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains No appreciable change in topography on true line.
Land, rolling bench land, general SE. drainage.
Soil, light brown coarse sandy loam, 2 ft. or more deep,
on stony, sandy clay subsoil, 1st. to 2nd. rate.
Undergrowth, sage and rabbit brush, and good grass for
grazing.
No timber.

September 3, 1915.

September 7: At 8^h00^m a.m., l.a.t., I set off 38°22¹/₂' on
the lat. arc; 6°21' N. on the decl. arc, and determine
a meridian with the solar at the re-established cor.
of secs. 16, 17, 20 and 21.

Thence I run

North, retracing bet. secs. 16 and 17.

40.00 I am unable to find any trace of the old ¹/₄ sec. cor.

80.00 After diligent search, I am unable to find any trace of
the old cor. of secs. 8, 9, 16, and 17.

As there are no entries in secs. 16 and 17, I will not
consider the old survey of this line in my extension
of new subdivisions.

The old survey was abandoned at this cor.

From the re-established cor. of 16, 17, 20 and 21, which
I later change to the cor. of secs. 20 and 21 only,
I run

West, retracing bet. secs. 17 and 20.

Over rolling bench land, draining SE., asc. gradually
through sage and rabbit brush, and scattering oak brush.

15.20 Old road, from La Sal to the Geyser saw mill, bears NE.
and SW.

20.70 Dry wash, 20 lks. wide, 6 ft. deep, drains SE.

32.25 Flood ditch, now dry, 8 lks. wide, 2 ft. deep, drains SW.

38.50 Flood ditch, now dry, 8 lks. wide, 2 ft. deep, drains S.

Retracements and Resurveys of Subdivisions in T. 28 S., R. 25 E.

Chains

40.28 Fall 8 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray sandstone, 16 x 10 x 7 ins., lying loose in small mound of stones, marked $\frac{1}{4}$ on one face.

Knowing now from closings made on the E. bdy. that this will be the cor. of one sec. only, I re-establish the cor. at the same point, as follows:

Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground for re-established $\frac{1}{4}$ sec. cor., with brass cap marked

S. 20

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of the cor.

Cor. stands on bench sloping SE., 33 ft. above the sec. cor. The old survey was abandoned here.

Land, rolling bench land, SE. drainage and exposure.

Soil light brown sandy and gravelly loam, 1 ft. or more deep on gravelly sub-soil. 2nd. rate.

Undergrowth, sage and rabbit brush, and scattering oak brush, and good grass for grazing.

No timber.

The true course of this half mile is therefore S. 89° 53' W. and the dist. , 40.28 chs.

From the re-established cor. of secs. 16, 17, 20 and 21, which I later change to the cor. of secs. 20 and 21,

I run

South, retracing, bet. secs. 20 and 21.

Over rolling bench land, drains SE., desc. gradually through sage and rabbit brush, and scattering oak brush.

5.55 Road, from the La Sal Road to the Geyser saw mill, bears N. 12° E. and S. 12° W.

10.30 Dry wash, 8 lks. wide, 2 ft. deep, drains S. 20° E.

11.20 Same road, bears N. 6° W. and S. 6° E.

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains
22.85 Same road, bears N.30°E. and S.30°W.
September 7: At this point, I set off 6°17'N. on the decl. arc, and at 12^h00^m l.a.t., observe the sun on the meridian; the resulting lat. is 38°23'.

33.45 Same road, bears N.20°W. and S.30°E.

40.12 Fall 16 lks. W. of the old $\frac{1}{4}$ sec. cor., which is a granite 12 x 10 x 10 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General. The cor. stands on slight SE slope, 35 ft. below the sec. cor., and at the junction of wire fences bearing E., W., and S. The NE. cor. of a shake shack, 10 x 15 ft., bears S.80°W., 135 lks. dist., not occupied. The true course of this half is therefore S.0°14'E., and the dist. 40.12 chs.

From the $\frac{1}{4}$ sec cor., I run South, retracing bet. secs. 20 and 21. Along wire fence; bears N. and S.

33.40 Telephone line, from La Sal to Ranger Station, bears N. 70°E., and S.70°W.

34.65 Wire fence, bears E. and W., Continue along N. and S. wire fence.

40.11 Fall 3 lks. W. of the old cor. of secs. 20, 21, 28 and 29, which is a sand stone, 10 x 10 x 5 ins. above ground, firmly set, marked with 2 notches on the S. edge, and 4 on the E. edge., but not witnessed. I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor. Cor. stands at the junction of E. and W., and N. and S. wire fences, on slight SE. slope, 30 ft. below the $\frac{1}{4}$ sec. cor. The true course of the half mile is therefore S.0°03'E., and the true dist., 40.11 chs. Land, rolling bench land, general SE. drainage and exposure. Soil, light brown sandy and gravelly loam, on gravelly

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains	<p>sub-soil, 2nd. rate.</p> <p>Undergrowth, sage and rabbitbrush, and scattered oakbrush, and good grass for grazing.</p> <p>No timber.</p> <hr/> <p>From the old cor. of secs. 20, 21, 28 and 29, heretofore described, I run</p> <p>West, retracing bet. secs. 20 and 29</p> <p>Over rolling bench land, draining SE., asc. slightly through sage and rabbit brush, and scrub oaks, along wire fence, bears E. and W., and along N. side of road, bears same, From La Sal to Paradox.</p> <p>25.00 Ditch, 2 lks. wide, 1 ft. deep, drains S. 30° E. Dry.</p> <p>29.10 Telephone line, from La Sal to Ranger Station, bears N. 70° E. and S. 70° W. Also leave road, bears E. and S. 70° W.</p> <p>40.36 The SW. cor. of wire fences bears N., 22 lks. dist.</p> <p>40.68 Fall 20 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a sandstone, 8 x 8 x 3 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. The old pits are nearly filled in; I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor. Cor. stands on left bank of Deer Cr., bears NW. and SE., 40 ft. above the sec. cor.</p> <p>The true course of this half mile, is therefore S. 89° 43' W., and the dist. 40.68 chs.</p> <p>From the old $\frac{1}{4}$ sec. cor, I continue</p> <p>West, retr. bet. secs. 20 and 29.</p> <p>Desc. abruptly over left bank of Deer Cr. bottom, bears NW. and SE., into side gulch.</p> <p>1.50 Dugway road, from La Sal to Paradox, bears NW. and SE.</p> <p>1.80 Bottom of gulch, 40 ft. below the $\frac{1}{4}$ sec. cor., drains S. Asc.</p> <p>2.65 Same road, bears NE. and SW.</p> <p>9.75 Old road, to timber, bears N. 20° W. and S. 20° E. Also, top</p>
--------	--

Retracement and Resurvey of Subdivisions in T.28 S., R.25 E.

Chains	of asc., 130 ft. above gulch, bears N. and S. Desc.
11.00	Wash, 8 lks. wide, 2 ft. deep, drains S. 70° E.
14.00	Desc. more rapidly, bears N. and S.
16.63	Deer Cr., now dry, course SE., 40 ft. below top of asc., rocky bottom, 15 lks. wide. Continue over bottom land. asc. gradually.
20.50	Dry wash, 10 lks. wide, 7 ft. deep, drains SE. into Deer Cr. bottom. Asc.
40.76	Fall 20 lks. N. of the old cor. of secs. 19, 20, 29 and 30, which is a sandstone, 10. x 10. x 3 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. Cor. stands on SE, slope, 90 ft. above Deer Cr. bottom. The true course of this half is therefore S. 89° 43' W., and the dist., 40.76 chs. Land, rolling bench, with SE. drainage. Soil, light brown sandy and gravelly loam, 1 ft. deep on stony subsoil, 2nd. rate. Undergrowth, sage and rabbit brush, and scrub oaks, with good grasses for grazing. No timber.
	September 7, 1915.
	September 8: At 8 ^h 00 ^m a.m., l.a.t., I set off 38° 22' on the lat. arc., 5° 58 ¹ / ₂ ' N. on the decl. arc, and determine a meridian with the solar at the old cor. of secs. 19, 20, 29 and 30, heretofore described. Thence I run West, retracing, bet. secs. 19 and 30. Over rolling bench land, Asc. gradually through sage and rabbit brush, and scattered oak brush.
23.50	Road, from La Sal to the Geyser sawmill, bears NE. and SW.
26.50	Wash, 10 lks. wide, 3 ft. deep, drains S. 70° E.
31.25	Irrigation ditch, 8 lks. wide, 2 ¹ / ₂ ft. deep, drains S. 45° E.
39.40	Road, to timber, bears N. and S.

Retracament and Resurvey of Subdivisions in Twp. 51 N., R. 33 E., S. 23 N.

Chains
40.10 Old road, connects with La Sal Road and the saw mill road
bears NE. and SW.
40.66 Fall 32 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray
sandstone 9' x 5' x 5' ins. above ground, firmly set, and
marked and witnessed as described by the Surveyor Gene-
ral. I rebuild mound of stones, 2 ft. base, 1 $\frac{1}{2}$ ft. high
N. of the cor.

The cor. stands 70 ft. above the sec. cor.

The true course of this half mile is therefore S. 89° 33' W.
and the dist., 40.66 chs.

From the old $\frac{1}{4}$ sec. cor., I continue

West, retracing bet. secs. 19 and 30.

5.35 Old road, to timber, bears NW. and SE.

36.03 Draw, 20 lks. wide, 8 ft. deep, drains SE. The bottom is
10 ft. above the $\frac{1}{4}$ sec. cor. Asc.

40.37 Intersect the West Bdy. of Tp. 51 lks. N. of the old cor.,
of secs. 19, 24, 25 and 30, described in the book of
the survey of the W. Bdy. of this Tp.

Cor. stands on E. slope, 35 ft. above draw.

The course of this half mile is therefore S. 89° 17' W., and
the dist., 40.37 chs.

Land, rolling bench sloping SE. from the foot of the La
Sal Mts.,

Soil, light gravelly and stony sandy loam, on stony sub-
soil, 2-3rd. rate.

Undergrowth, sage rabbit and oak brush, and good grass
for grazing.

No timber.

September 5, 1915.

Retracement and

Resurvey of Portion of the South Boundary of T.28 S., R.25 E.

Chains.

September 4: At 9^h50^m a.m., l.a.t., I set off 38°20' on the lat. arc., 7°26'N. on the decl. arc, and determine a meridian with the solar at the old cor. of secs. 2, 3, 34 and 35, on the S. Bdy. of the Tp., heretofore described.

Thence I run

East, Retracing bet. secs. 2 and 35.

Over mountainous land on north slope of Pine Ridge, desc. gradually through yellow pine timber, and sarvise under brush.

15.00 Desc. abruptly into gulch

17.00 Gulch, 120 ft. below the cor., drains N.20 E. Asc.

21.00 Spur, 30 ft. above the gulch, projects N.15°E., 15 chs.

25.00 Gulch, 110 ft. below spur, drains N.30°E. Asc.

28.00 Spur, 75 ft. above gulch, projects N.8°E., 15 chs. Desc.

30.10 Gulch, 20 ft. below spur, drains N. Asc..

32.00 Spur, 25 ft. above gulch, projects N.25°W., 10 chs. Desc.

35.60 Gulch, 60 ft. below spur, drains N.45°W. Asc.

39.30 Rocky spur, 70 ft. above the gulch, projects N., 10 chs., Desc.

40.25 Fall 4 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray sandstone, 16 x 10 x 6 ins. lying loose in a mound of stones, marked $\frac{1}{4}$ on one face, and witnessed by two bearing trees, as described by the Surveyor General. I re-set stone 12 ins. in the ground, with the $\frac{1}{4}$ on the N. face, for $\frac{1}{4}$ sec. cor., from which

A cedar, 25 ins. diam., bears N.52°W., 42 lks. dist., re-marked $\frac{1}{4}$ S 35 BT

A cedar, 15 ins. diam., bears S.45°W., 24 lks. dist., re-marked $\frac{1}{4}$ S 2 BT

The cor. stands on E. slope of spur, 20 ft. below the top. The true course of this half is therefore S.89°57'E., and the dist., 40.25 chs.

From the $\frac{1}{4}$ sec. cor., I continue,

Retracement and
Resurvey of Portion of the South Boundary of T.28 S., R.25 E.

Chains

East, retracing bet. secs. 2 and 35

40.00 After diligent search, I am still unable to find any trace of the old cor. of secs. 1, 2, 35 and 36. Set a temp. point.

September 4: The sky is overcast at apparent noon, and observation for latitude is impossible.

From the temp. point for the cor. of secs. 1, 2, 35 and 36, I continue East, on continuous measurement, retracing bet. secs. 1 and 36.

1.50 Fall 2.80 chs. S. of the temp. point. for the cor. of secs. 1, 2, 35 and 36, set from the N. on Sept. 2.

46.30 Fall 18 lks. N. of the old $\frac{1}{4}$ sec. cor., bet. secs. 1 and 36, which is a sandstone, 16 x 8 x 3 ins. lying loose in an old mound of stones, marked $\frac{1}{4}$ on one face, and witnessed by two bearing trees, as described by the Surveyor General.

I re-set stone 12 ins. in the ground, with $\frac{1}{4}$ on the N. face, for $\frac{1}{4}$ sec. cor., at the same point, from which
A cedar, 24 ins. dia., bears N. 80° W., 11 lks. dist., re-marked $\frac{1}{4}$ S 36 BT
A cedar, 15 ins. dia., bears S. 88° E., 15 lks. dist., re-marked $\frac{1}{4}$ S 1 BT.

The true course of each half is therefore S. 89° 53' E., and the dist., 43.15 chs.

X From the old $\frac{1}{4}$ sec. cor. bet. secs. 2 and 35, on the S. Bdy.,

S. 89° 53' E. on true line, resurveying bet. secs. 2 and 35
Continue over E. side of spur, desc. through cedar and pinion timber, and scattering yellow pine.

5.00 Gulch, 40 ft. below the $\frac{1}{4}$ sec. cor., drains N. Asc.

6.50 Top of asc. bears N. and S., 50 ft. above gulch. Leave timber, bears N. and S., thence along N. slope of Pine

Retracement and
Resurvey of Portion of the South Boundary of T.28 S., R.25E.

Chains	Ridge, near base.
29.00	Wash, 10 lks. wide, 4 ft. deep, drains N. Asc.
34.00	Spur, 125 ft. above wash, projects N. 4 chs. Desc.
39.15	Gulch, 60 ft. below spur, drains N. 40°E.
41.50	Fall 2.89 chs. S. of the temp. point from the N.
43.15	Proportionate measurement: Set a sandstone, 18 x 10 x 6 ins., 12 ins. in the ground, for restored cor. of secs. 1, 2, 35 and 36, marked with one notch on the E. and five notches on the W. edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of the cor. It is impracticable to set an iron post for this cor. From this cor., Turner's house bears N. 14½°W., and Geo. Stock's house (chimney) bears N. 11°20'E. Cor. stands on top of spur, 50 ft. above the gulch, projecting N., 3 chs. Land on this mile, mountainous, over the bottom of the N. slope of Pine Ridge. Soil, gravelly and stony red sandy loam, shallow on rocky sub-soil, 3rd. rate. Undergrowth, sarvice brush, some scattered sage. Timber, cedars and pinion, and scattered yellow pine.
	<hr/>
	S. 89°53'E. on true resurvey line, bet. secs. 1 and 36. Over mountainous land, sloping E. from Pine Ridge, desc. from spur through sage and scattered oak brush.
5.50	Gulch, 40 ft. below spur, drains N. Asc.
20.00	Spur, 100 ft. above the gulch, projects N. 20°W. Desc.
24.50	Gulch, 70 ft. below spur, drains N. Asc.
37.50	Spur, 85 ft. above gulch, projects N., 25 chs. Desc.
39.80	Gulch, 120 ft. below spur, drains N. 20°W. Asc. Also enter cedar and pinion timber, bears N. and S.
42.00	Top of mesa, bears N. and S., 160 ft. above the gulch. Thence over nearly level mesa, slopes slightly to the E.
43.15	The re-established ¼ sec. cor., heretofore described.

September 4, 1915.

Resurvey of Portion of the South Boundary of T.28 S., R.25 E.

Chains

September 6: At 7^h 30^m a.m., l.a.t., I set off 38°20' on the lat. arc; 6°44'N. on the decl. arc, and determine a meridian with the solar at the restored 1/2 sec. cor. bet. secs. 1 and 36, on the S. Bdy. of the Tp.

Thence I run

East, retracing bet. secs. 1 and 36

Over nearly level mesa land, desc. slightly through cedar and pinon timber, and sarvice undergrowth.

8.00 Leave cedar and pinon timber, bears N. and S., and enter sage brush park, bears same.

16.00 Draw, 20 ft. below the 1/2 sec. cor., drains W., heads about 3 chs. S. of line. Asc. gradually.

28.00 Top of asc, bears N. and S., 25 ft. above the draw; thence desc. very gradually.

32.00 Desc. more rapidly, bears NW. and SE.

36.00 Leave sage brush park, bears N. and S., and enter cedar and pinon timber, bears same, and some yellow pines.

x 40.73 Fall 44 lks. S. of the old cor. of Ts. 28 and 29 S., Rs. 25 and 26 E., which is a gray sandstone, 16 x 3 x 16 ins. above ground, loosely set in a mound of stone, marked and witnessed as described by the Surveyor General. I re-set stone 6 ins. deeper in the ground. Some of the bearing trees are dead or dying, and all are poorly marked. I re-mark the SE. BT, and take new ones as follows:

A pinon pine, 9 ins. dia., bears N.17°E., 44 lks. dist., marked T.28 S R 26°E S 31 BT

A cedar, 16 ins. diam., bears S.33°E., 21 lks. dist., marked T.29 S R 26°E S 6 BT

A cedar, 9 ins. dia., bears S.5°W., 30 lks. dist., marked T.29 S R 25°E S 1 BT

A cedar, 7 ins. dia., bears N.33 1/4°W., 52 lks. dist., marked T 28 S R 25°E S 36 BT

The true course therefore N.89°23'E., and dist., 40.73 chs. Soil, rocky red sandy loam, on rock sub-soil, 3rd. rate. Land, Mountainous, general N. and E. drainage. Sarvice and oak and sage undergrowth, cedar, pinon and some yellow pine timber.

Retracement and resurvey of the

Colorado Guide Meridian; through Tps. 28 S., bet. Rs. 25 and 26 E.

Chains Sept. 6: At 10^h00^m a.m., l.a.t., I set off 38°20' N. on the lat. arc, 6°41' N. on the decl. arc, and determine a meridian with the solar at the re-established cor. of Ts. 28 and 29 S., Rs. 25 and 26 E., heretofore described. Thence, preliminary to commencing the subdivision of this Tp., I run N. on a blank line, on the E. bdy. sec. 36; at 40.00 chs., I find the old $\frac{1}{4}$ sec. cor., properly mkd. and witnessed, S.19°37' W., 1.22 chs. dist.

Sept. 6: It is impracticable to be on the meridian at apparent noon.

At 80.00 chs. the old. cor. of secs. 25, 30, 31 and 36, properly mkd. and witnessed, bears S.31°03' W., 1.78 chs. dist. Set temp. point.

Sept. 6, 1915.

Sept. 14: At 8^h00^m a.m., l.a.t., set off 38°21' on the lat. arc, 3°42' N. on the decl. arc, and determine a meridian with the solar at the temp. 80.00 ch. point. Thence I continue my line N.

At the 160.00 ch. point, Sept. 14; I set off 3°38' N. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°22'.

Discontinue work for the day at the 240.00 ch. point.

Sept. 14, 1915.

Sept. 15: At 8^h00^m a.m., l.a.t., I set off 38°22½' on the lat. arc, 3°19' N. on the decl. arc, and determine a meridian with the solar at the 240.00 ch. point. Thence I continue my line N., finding no part of the E. bdy. in alignment nor within limit for dist.

Sept. 15: At the 320.00 ch. point, I set off 3°15' N. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°23'.

Discontinue work for the day at the 360.00 ch. point.

Sept. 15, 1915.

Sept. 16: At 8^h15^m a.m., l.a.t., I set off 38°23½' on the lat. arc, 2°56' N. on the decl. arc, and determine a meridian with the solar at the 360.00 ch. point. Thence I continue my line N.,

Retracement and Resurvey of the

Colorado Guide Meridian through Tps. 28 S. bet Rs. 25 and 26 E.

Chains, Sept. 16: At the 420.00 ch. point, I set off $2^{\circ}51\frac{1}{2}'$ N. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}24'$.

I continue my line north, finding no part of the E. bdy. in alignment. At 6 miles 7.71 chs., intersect E. and W. line, 13 lks. E. of the old cor. of Ts. 27 and 28 S., Rs. 25 and 26 E., which is a gray sandstone, $17 \times 8 \times 2$ ins. above ground, loosely set in a mound of stone, and marked and witnessed by bearing trees as described by the surveyor general for the Tp. cor. set by Ferdinand Dickert, D.S., in 1878, in his survey of the Colorado Guide Meridian. From this cor., another Tp. cor., which is a sandstone, $10 \times 8 \times 8$ ins. above ground, firmly set, and marked and witnessed as described by the surveyor general for the cor. of Tps. 27 and 28 S., Rs. 25 and 26 E., as set by Ernest Buettner, D.S., in 1880, in his resurvey of the Colorado G.M. and the S. bdrs. of Ts. 27 S., Rs. 26 and 27 E., bears $N. 54^{\circ}59' E.$, 7.36 chs. dist.

As no subdivisions are dependent on the Colorado G.M., bet. Ts. 28 S., Rs. 25 and 26 E., I resurvey this line as follows:

(Note.- Two sets of chainmen are not available for this survey, I therefore cause each slope dist. and each angle as read by the clinometer to be double checked, and the mean of the reduced horizontal distances only appear in the resurvey of the G.M.)

Sept. 17: At 8⁰⁰ A.M., l.a.t., I set off $38^{\circ}20'$ on the lat. arc, $2^{\circ}32\frac{1}{2}'$ N. on the decl. arc, and determine a meridian with the solar at the re-established cor. of Ts. 28 and 29 S., Rs. 25 and 26 E., heretofore described.

Thence,

$N. 0^{\circ}01' W.$, bet. secs. 31 and 30.

Over uneven mesa, desc. into gulch through cedar and pinon timber, and service brush.

.65 Gulch, 5 ft. below cor., drains $S. 50^{\circ} E.$ Asc.

-29-
Resurvey
Colorado Guide Meridian
East Boundary of T.28 S., R.25 E.

Chains	
3.40	Top of asc., 40 ft. above gulch, brs. NW. and SE. Thence over top of mesa, asc. gradually.
12.90	Rim of mesa, 10 ft. above top of asc. from gulch, brs. N.45°W., and S.70°E., thence desc. abruptly over broken ledges, through dense sarvice undergrowth. Leave cedars, and pinon, brs. NW. and SE.
13.25	Chimney on Royal Larson's house brs. N.23°50'E.
19.20	Foot of abrupt desc., 285 ft. below rim of mesa, brs. E. and W., thence over bench land, strewn with large broken boulders.
31.00	Leave bench land, brs. E. and W., desc. through pinon and cedar timber, brs. same.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. into the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	<div style="display: flex; justify-content: space-around; align-items: center;"> S 36 $\frac{1}{4}$ | S 31 $\frac{1}{4}$ </div> <div style="text-align: center;">1915</div>
	from which
	A pinon, 16 ins. diam., bears S.74°E., 49 lks. dist marked $\frac{1}{4}$ S 31 BT
	A cedar, 16 ins. diam., bears S.53°W., 33 lks. dist marked $\frac{1}{4}$ S 36 BT
	Cor. stands on N. slope, 55 ft. below bench.
	From this cor., the old cor, a sandstone, bears S.19°37'W.
	1.22 chs. dist. I destroy all traces of the old cor.
47.10	Foot of desc., brs. E. and W., 65 ft. below $\frac{1}{4}$ sec. cor.
	Thence over level bench land, timber becomes scattering.
47.30	Road, bears E. and W., from Lasal to Paradox.
48.66	Telephone line, bears E. and W., from Lasal to Paradox; built by the Forest Service.
51.70	Irrigation Ditch, 2 ft. wide, 8 ins. deep, flows east to Royal Larson's ranch. The intake on Lasal Cr. is about 60 chains west. From this point, the chimney on Royal Larson's house bears S.69°02'E.
56.00	Brush fence bears N.70°W. and S.70°E. Desc. rapidly into Lasal Cr.
60.35	Lasal Cr., 10 lks. wide, 5 ins. deep, course east, rapid

Resurvey East Boundary of T.28 S., R.25 E. Colorado Co. N.

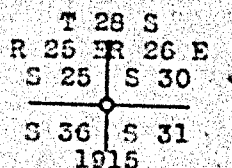
0115

51100

current, rocky bottom, good water. Creek is 315 ft. below
the 1 sec. cor. Asc. abruptly over huge broken boulders
and dense cedar and pinon timber.

68.71 Top of abrupt acc., bears E. and W., 160 ft. above the creek
Thence over level bench land.

20.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for con. of secs. 25, 30, 31 and 36, with brass cap marked



From which

A pinon, 9 ins. diam., bears H.69°E., 16 lks. dist.,
marked T 28 S R 26 E S 30 BT

A pinon, 10 ins. diam., bears S.38°E., 39 lks. dist.
marked T 28 E R 26 E S 31 BT

A pinon, 8 ins. diam., bears S.30°W., 22 lks. dist.,
marked T 28 E R 25 E S 36 BT

A pinon, 9 ins. diam., bears H. G. W., 33 lks. dist.,
marked T 283 R 25 E S 25 BT

The cor. stands on bench land, 160 ft. above the creek.

From this cor., the old cor. bears S.31°37'W., 1.76 chs.
dist. I destroy all traces of the old cor.

Sept. 17: At this cor. I set off $2^{\circ}28'N$. on the decl. arc, and at apparant noon observe the sun on the meridian; the resulting lat. is $38^{\circ}21'$.

Land, generally rough mountainous, steep north and south slopes of Lasal Canyon.

Soil, on slopes, rocky stony loam on sandstone, 4th rate;
on benches, a red sandy loam, medium texture, about 2 ft
deep on sandstone, 2nd. rate.

A dense growth of cedar and pinon timber occurs generally on the mile, with service bush undergrowth, and fair grazing grasses.

Resurvey East Boundary of T.28 S., R.25 E., Colorado G.M.

Chains. N.0°01'W. bet. secs. 25 and 30.

Over uneven mesa, asc. gradually through cedar and pinon timber, and sarvice undergrowth

7.90 Road, bears S.15°W. and N.45°E., timber road from La Sal.

10.70 Small wash, 5 lks. wide, 2 ft. deep, drains east.

14.00 Leave bench land, bears E. and W., and asc. abruptly over broken sand stone ledges to top of mesa.

18.60 Top of rim of mesa, bears E. and W., 145 ft. above the cor. Asc. gradually.

22.30 Ridge, N.70°E. and S.55°W., 40 ft. above the rim. Desc. abruptly into deep gulch, over sandstone ledges.

26.40 Rocky bottom of gulch, drains N.70°E., 120 ft. below ridge
Thence asc. precipitous N. side of gulch to rim of the main mesa.

31.70 Top of rim of mesa, bears N.35°E and S.35°W., 270 ft. above gulch. Thence over uneven top of mesa.

40.00 Note: From the closing of the line bet. secs. 25 and 36 on the boundary made this day, I know that this cor. will be the cor. of sec. 30 only.

Set an iron post, 3 ft. long, 1.in. diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

$\frac{1}{4}$ S 30

1915

From which

A cedar, 16 ins. diam., bears N.65°E., 22 lks. dist marked $\frac{1}{4}$ S 30 BT

From this cor the old cor., a sandstone, bears S.55°W., 83 lks. dist. I destroy all traces of the old cor.

46.10 Rim of mesa, bears E. and W. Desc. abruptly over rim-rock ledges into Two-Mile-Canyon.

54.10 Leave cedar and pinon timber, bears NW. and SE., and enter aspen and yellow pine timber, and dense sarvice brush.

58.70 Leave aspen timber, bears NW. and SE. A spring branch, 6 lks. wide, 3 ins. deep, course E., good water.

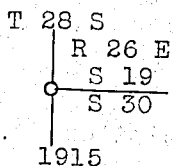
63.40 Two-Mile Creek, 16 lks. wide, 6 ins. deep, course E., good

Resurvey East Boundary of T.28 S., R.25E. Colorado Guide M

Chains

water, in bottom of Two-Mile Canyon, drains generally S.50°E., 330 ft. below top of mesa. Thence over sandy floor of canyon.

- 65.70 Leave bottom of canyon, N.50°W. and S.50°E., leave yellow pine timber, bears same, and asc. abruptly over sandstone ledges through scattering cedar and pinon timber.
- 70.90 Enter gulch, drains S.10°W., asc. up bottom of same.
- 80.00 Knowing this will be a cor. of two secs., I set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for cor. of secs. 19 and 30, with brass cap marked



From which

A pinon, 6 ins. diam., bears N.33°E., 45 lks. dist.,
marked T 28 S R 26 E S 19 BT

A pinon, 10 ins. diam., bears S.57°E., 6 lks. dist.,
marked T 28 S R 26 E S 30 BT

Cor. stands in gulch, 260 ft. above the bottom of canyon.
I am unable to find any trace of the old cor.

The land on this mile is generally rough mountainous, consisting of steep sandstone ledges.

The soil is a rocky sandstone loam, shallow on sandstone subsoil, 4th. rate.

Cedar and pinon timber predominate, with scattering yellow pine and aspen. Dense sarvice brush and fair grazing grasses occur on the mile.

Sept. 17, 1915.

Sept. 23: At 9^h00^m a.m., app. t., I set off 38°22' on the lat. arc; 0°12' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 19 and 30.

Thence,

N.0°01'W., bet. secs. 19 and 24

Over mountainous land, asc. up west side of gulch, through

Resurvey of East Boundary of T.28 S., R.25 E. Colorado G.M.

Chains	cedar and pinon timber, and sarvice brush.
14.90	Top of asc., bears E. and W., 185 ft. above the sec. cor. Thence over level mesa.
25.00	Leave level mesa, bears NW. and SE., and desc. into canyon.
40.00	Knowing this to be the cor. of one sec., I set an iron post, 3 ft. long, 1 in. diam., 26 ins. into the ground for $\frac{1}{2}$ sec. cor., with brass cap marked <div style="text-align: center;"> <p>1915</p> <p>S 19</p> </div> <p>From which</p> <p>A pinon, 8 ins. diam., brs. N.60°E., 37 lks. dist., marked $\frac{1}{2}$ S 19 BT</p> <p>Cor. stands on NE. slope, 35 ft. below the top of mesa.</p> <p>The old $\frac{1}{2}$ sec. cor. bears S.65°W., 102 lks. dist. I destroy all traces of the old cor.</p>
46.30	Bottom of canyon, drains S.60°E., 70 ft. below the cor. Asc. over huge broken boulders.
53.00	Top of steep asc., thence asc. gradually over rolling mesa, bears NW. and SE.
68.00	Top of flat spur, 185 ft. above the canyon, projects W. 5 chs. Desc. gradually.
75.00	Leave cedar and pinon timber, bears E. and W., and enter sage brush park.
79.00	Draw, drains S.50°W., 30 ft. below spur.
80.00	Knowing this will be the cor. of two secs., I set an iron post, 3 ft. long, 3 ins. diam., 24 ins. into the ground, for the cor. of secs. 18 and 19, with brass cap marked <div style="text-align: center;"> <p>T 28 S</p> <p>R 26 E</p> <p>S 18</p> <p>S 19</p> <p>1915</p> </div> <p>dig pits, 24x24x12 ins., in each sec., 6 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.</p> <p>From this cor., the old cor., a sandstone, bears S.1°25'W.,</p>

Resurvey of East Boundary of T.28 S., R.25 E., Colorado G.M.

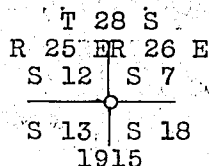
Chains	<p>5.16 chs. dist. I destroy all traces of the old cor.</p> <p>Land, generally mountainous, consisting of mesa land broken by ledges and canyons, easterly drainage.</p> <p>Soil, on mesa and open land, red sandy loam, loose fine texture, 2 to 5 ft. deep on sandstone, 2nd. rate; soil in canyon sides rocky and stony, 4th. rate.</p> <p>Cedar and pinon timber, sarvice and sage brush undergrowth with fair grazing grasses occur on the mile.</p>
	<p>N.0°01'W. bet. secs. 13 and 18.</p> <p>Over rolling land, asc. gradually through sage brush.</p>
5.00	Leave sage brush park, bears E. and W., and enter pinon and cedar timber, bears same.
38.00	Top of asc., bears NW. and SE., 30 ft. above the cor., thence desc. into canyon.
40.00	Knowing this will be the cor. of two secs, I set an iron post, 3 ft. long, 1 in. diam., 26 ins. into the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\begin{array}{c} \text{S } 13 \frac{1}{4} \text{ S } 18 \\ | \\ 1915 \end{array}$
	From which
	<p>A pinon, 15 ins. diam., bears N.9°E., 58 lks. dist., marked $\frac{1}{4}$ S 18 BT</p> <p>A pinon, 6 ins. diam., bears S.69°W., 26 lks. dist., marked $\frac{1}{4}$ S 13 BT</p>
	The cor. stands on steep NE. slope, 22 ft. below top of asc.
	The old cor., a sandstone, bears S.6°W, 210 chs. dist. I destroy all traces of the old cor.
48.25	Bottom of canyon, drains S.40°E., 110 ft. below the $\frac{1}{4}$ sec. cor. Leave cedar and pinon timber, bears NW. and SE., and enter yellow pine timber.
52.37	A sand stone, 18x10x5 ins. above ground, marked "GM" on N. face, bears W. 40 lks. I destroy marks on same.
53.90	Trail, from La Sal to Paradox, bears N.45°E. and S.45°W.

Resurvey of East Boundary of T.28 S., R.25 E., Colorado G.M.

Chains

66.00 Leave yellow pine timber, bears NW. and SE., and enter cedars and pinon timber, brs. same.

80.00 Knowing that on account of a sec. correction line this will be the cor. of four secs., I set an iron post, 3 ft. long, 3 ins. diam., 24 ins. into the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap marked



From which

A pinon, 10 ins. diam., bears N.33°E., 46 lks. dist. marked T 28 S R 26 E S 7 BT

A pinon, 10 ins. diam., bears S.30°E., 47 lks. dist., marked T 28 S R 26 E S 18 BT

A pinon, 22 ins. diam., bears S.17°W., 22 lks. dist., marked T 28 S R 25 E S 13 BT

A pinon, 9 ins. diam., bears N.47°W., 25 lks. dist., marked T 28 S R 25 E S 12 BT

Cor. stands on slope facing SW., 230' ft. above canyon.

From this cor., the old cor., a sandstone, bears S.2°10'W., 4.99 lks. dist. I destroy all traces of the old cor.

Sept. 23: At this cor., I set off 0°09'N. on the decl. arc and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°23'

Land, generally mountainous, with SE. drainage; rolling on the south end.

Soil, red sand loam, stony, on sandstone subsoil, 3rd. rate Cedar and pinon timber, and some yellow pine occur on the mile, with sarvice, sage brush and good grazing grasses.

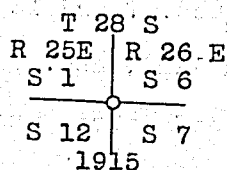
N.0°01'W. bet. secs. 7 and 12

Over uneven mesa land, asc. gradually through pinon and cedar timber, and sarvice undergrowth.

18.00 Leave cedar and pinon timber, bears E. and W., and enter yellow pine timber, bears same.

Resurvey of East Boundary of T.28 S., R.25 E., Colorado G.M.

- Chains
- 24.75 Top of asc., flat top ridge, bears NW. and SE., 100 ft. above the cor. Thence desc. to rim of mesa.
- 33.57 R. Swain's cabin bears S.78°E.
- 34.00 Rim rock, edge of mesa, bears N.30°W. and S.40°E. Desc. abruptly over ledge into Hop Cr. Canyon. Enter oak brush.
- 40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. into the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
- S 12 $\frac{1}{4}$ S 7
1915
- From which
- An aspen, 7 ins. diam., bears N.27 $\frac{1}{2}$ °W., 35 lks. dist. marked $\frac{1}{4}$ S 12 BT
- An aspen, 6 ins. diam., bears N.16 $\frac{1}{2}$ °E., 48 lks. dist. marked $\frac{1}{4}$ S 7 BT
- Cor. stands on steep N. slope 105 ft. below top of mesa. From this cor. the old cor., a sandstone, bears S.12°E., 4.94 chs. dist. I destroy all traces of the old cor.
- 40.30 Enter dense aspen timber, bears E. and W.
- 40.75 Ravine, 15 ft. below the cor., drains E. Asc. to spur.
- 41.00 Leave aspen timber, bears E. and W.
- 43.50 Spur, 40 ft. above ravine, projects E. 3 chs. Desc.
- 50.40 Road, from saw mill to Swain's homestead, bears NW. and SE.
- 54.21 W. fork of Hop Cr., now dry, 25 ft. below spur, drains S.40°E. Asc. to rim of mesa.
- 69.25 Rim rock, vertical ledge, 20 ft. high, bears N.60°W. and S.50°E., top is 220 ft. above creek bed. Thence over uneven mesa, asc. through manzanita. Yellow pine timber becomes more dense.
- 80.00 Set an iron post, 3 ft. long, 3 ind. diam., 24 ins. into the ground, for cor. of secs. 1,6,7 and 12, with brass cap marked



From which

Resurvey of East Boundary of T.28 S., R.25 E. Colorado Guide Meridian

Chains

A yellow pine, 12 ins. diam., bears N.76°E., 92 lks.
dist., marked T 28 S R 26 E S 6 BT

A yellow pine, 9 ins. diam., bears S.80°E., 165 lks.
dist., marked T 28 S R 26 E S 7 BT

A yellow pine, 12 ins. diam., bears S.61°W., 20 lks.
dist., marked T 28 S R 25 E S 12 BT

A yellow pine, 14 ins. diam., bears N.42°W., 17 lks.
dist., marked T 28 S R 25 E S 1 BT

Cor. stands on mesa sloping S., 25 ft. above the rim.

From this cor., the old cor., a sandstone, bears N.1°W.,
7.38 chs. dist., I destroy all traces of the old cor.

Land, generally mountainous, rolling mesa broken by rim-
rock canyons, drainage SE.

Soil, yellow and red sandy loam, dry, coarse texture,
mostly stony and rocky on sandstone base, 3-4th. rate.

Pinon and cedars, yellow pine and some aspen timber occur
on the mile, with sarvice brush and manzanita and oak
brush undergrowth, and fair grazing grasses.

N.0°01'W., bet. secs. 1 and 6.

Over uneven mesa, asc. gradually through yellow pine tim-
ber, oak and sarvice brush, and scattering sage brush
undergrowth.

38.02 Top of asc., bears NW. and SE, 60 ft. above the cor., desc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 26 ins. into the
ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $1\frac{1}{4}$ S. 6 ✓

1915

From which

A yellow pine, 48 ins. diam., bears N.45°W., 80
lks. dist., marked $\frac{1}{4}$ S 1 BT

A yellow pine, 40 ins. diam., bears S.62°E., 77
lks. dist., marked $\frac{1}{4}$ S 6 BT

Cor. stands on N. slope, 10 ft. below top of asc.

I am unable to find any trace of the old cor.

Resurvey of the Colorado G.M. along
East Boundary of T.28 S., R.25 E.

Chains
44.99 Gulch, 25 ft. below the $\frac{1}{4}$ sec. cor., drains SW. Asc.
83.15 Top of asc., bears E. and W., 200 ft. above gulch. Desc.
87.71 The old cor. of ts. 27 and 28 S., Rs. 25 and 26 E., as
set by Ferdinand Dickert, D.S., in 1878. I destroy all
marks on the stone, and re-mark same with "A P" on the
N. face, for angle point, and I also obliterate marks
on the old bearing trees and re-mark same as follows:
A yellow pine, 30 ins. diam., bears N.17°E., 47 lks.
dist., marked A P BT
A yellow pine, 30 ins. diam., bears S.7 $\frac{1}{2}$ °W., 80 lks.
dist., marked A P BT
A yellow pine, 28 ins. diam., bears S.33°W., 85 lks.
dist., marked A P BT
A yellow pine, 30 ins. diam., bears N.35°W., 50 lks.
dist., marked A P BT.

Sept. 23, 1915.

Sept. 24: For solar this day see line bet. secs. 1 and
36, N. Bdy.

From the old Tp. cor. re-marked as Angle Point, I run
North, bet. secs. 1 and 6, continuous measurement.

91.91 Intersect the South boundary of T.27 S., R.25 E. at 6.05
chains S.89°37'W. of the old cor. of Ts. 27 and 28 S.,
Rs. 25 and 26 E., set by Ernest Buettner, D.S., in 1880
At intersection, I set an iron post, 3 ft. long, 3 ins.
diam., 24 ins. into the ground, for closing cor. of Ts.
28 S., Rs. 25 and 26 E., with brass cap marked

T 27 S
R 25 E | R 26 E
S 36 | S 31

S 1 | S 6
T 28 S
1915

and raise a mound of stone, 4 ft. base, 3 ft. high,
south of the cor.

Land, uneven mesa, with general SW. drainage.

Soil, yellowish sandstone loam, dry coarse texture, from
2 to 4 ft. deep on solid sandstone subsoil, stony and

Resurvey of the Colorado G.M., along.

East Boundary of T.28 S., R.25 E.

Chains

rocky in places, 4th. rate.

Timber, scattering yellow pine, and oak, sarvice and scattering sage brush undergrowth, with good grazing grasses.

Sept. 24, 1915

Retracement and Resurvey of the North Boundary of T.28 S.,
R.25 E.

September 24: At 8^h00^m a.m., l.a.t., I set off 38°25' on the lat. arc; 0°09½'S. on the decl. arc, and determine a meridian with the solar at the old cor. of Ts 27 and 28 S., Rs. 25 and 26 E., heretofore described as being set by Ernest Buettner, D.S., in 1880. I know now, from ties already made, that this will be the cor. of two Ts. only. I re-establish cor. at same point, as follows:

Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. in the ground, for re-established cor. of Ts. 27 S., Rs. 25 and 26 E., with brass cap marked

T 27 S
R 25 E | R 26 E
S 36 | S 31

1915

and raise a mound of stone, 3 ft. base, 2 ft. high, N. of the cor.

The post is set beside the old stone.

Thence I run

S.89°57'W., record course, retracing along S. bdy. sec. 36.

Over mountainous land, Asc. abruptly out of Hop Cr. Canyon, to mesa, through sage and sarvice brush, along S. side of wire fence, bears E. and W.

3.20 Top of asc., east rim of mesa, bears NW. and Se., 70 ft. above the cor.

Chains

6.05 Fall 4.23 chs. N. of the Angle Point cor., which was the old cor. of T. 27 and 28 S., Rs. 25 and 26 E., heretofore described as set by Ferdinand Dickert, D.S., in 1878.

(Note.- Later this day the closing cor. of T.28 S., Rs. 25 and 26 E., was set on the true line, 3 lks. S. Of this point on retracement line. For description of this cor., see page 38, of this book.)

Thence over uneven mesa, draining NE., enter yellow pine timber, scattered, and manzanita undergrowth, asc.

15.00 Top of asc., bears NW. and SE., 30 ft. above point for CC., thence desc. gradually to S. Fork of Hop Cr. Canyon.

35.00 Ravine, 120 ft. below top, drs. S. into Hop Cr. Can. Asc.

36.50 Trail, leading to Road in S. Fork of Hop Cr., from the N. Fork, bears NE. and SW.

40.11 Fall 23 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray sandstone, 14 x 10 x 5 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General; The pine BT is dying. Knowing this will be the cor. of one sec. only, I re-establish cor. at same point, by setting more firmly in mound of stones, for the $\frac{1}{4}$ sec. cor. of sec. 36,

from which

A yellow pine, 10 ins. diam., bears N. $9\frac{1}{2}^{\circ}$ E., 44 lks. dist., marked $\frac{1}{4}$ S 36 BT.

Cor. stands on E. slope, 20 ft. above the ravine.

The true course of this half is therefore S. $89^{\circ}37'$ W., and the dist. 40.11 chs.

September 24: The sky is overcast at apparent noon; lat. obsn. impossible.

I destroy all marks on the $\frac{1}{4}$ sec. cor. which pertain to sec. 1.

From the $\frac{1}{4}$ sec. cor., I run S. $89^{\circ}57'$ W., retracing along S. Bdy. of sec. 36.

Retracement and resurvey of the North Boundary of T.28 S., R.25 E.

Chains	Asc. to spur.
53.00	Spur, 35 ft. above the $\frac{1}{4}$ sec. cor., projects S., thence desc. directly into S. Fork of Hop Cr. Canyon.
14.20	Foot of desc., bears NW. and SE., 70 ft. below spur, thence desc. gradually over rolling canyon bottom. Leave scattering yellow pine timber, bears N. and S.
33.75	Road, from saw mills to Swain's homestead, bears NW. and SE. Enter scattering groves of scrub aspens, bear N. and S.
37.50	S. fork of Hop Cr., 6 lks. wide, 4 ins. deep, course SE., good water, 20 ft. below the foot of spur. Usually dry.
40.05	Fall 8 lks. N. of the old cor. of secs. 1, 2, 35 and 36, which is a gray sandstone, 10 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
	I destroy all marks on the cor. pertaining to secs. 1 and 2, and raise a mound of stones, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor., the aspens being too scrubby to mark.
	The true course of this half is therefore S.89°50'W., and the dist., 40.05 chs.
	Cor. stands on small raise, 5 ft. above S. fork Cr.
	Land, mountainous, with general SE. drainage, into the left fork of Hop Cr.
	Soil, light sandy gravelly loam, shallow on rocky subsoil, sandstone formation, 3rd. rate.
	Undergrowth, scattering sage, sarvice and manzanita, good grazing grasses.
	Timber, scattering yellow pines.
<hr/>	
	September 27: At 8 ^h 00 ^m a.m., l.a.t., I set off 38°25' on the lat. arc; 1°19'S. on the decl. arc, and determine a meridian at the old cor. of secs. 35 and 36, on the N. bdy.
	Thence I run S.89°57'W., retracing, along S. bdy. of sec. 35.
	Over mountainous land in canyon bottom, desc. gradually,

Retracement and Recovery of the South Boundary of S. 20 S. 2 E.

Chains to west, through scrub aspen timber.

4.32 Vash, 10 ft. below cor., drains SE., small seep in bottom, probably running water in wet season. Asc. to mesa.

17.10 Rim of mesa, 170 ft. above the cor., bears NW. and SE. Thence asc. to ridge on top of mesa, and enter yellow pine timber, bears NW. and SE.

22.10 Ridge, top of mesa, 40 ft. above the rim, bears N. and SE. This is the divide bet. Hop Cr. and Two Mile Cr. Desc.

31.00 Leave mesa, bears NW. and SE., and begin abrupt desc. into Two Mile Cr. Leave yellow pine timber, bears NW. and SE., and enter dense undergrowth of service, oak and sage brush. bears same.

33.00 Bottom of abrupt rocky desc., bears NW. and SE., 190 ft. below top of mesa, thence over broad bottom of Two Mile Canyon,, desc. gradually to creek.

39.40 Fall 31 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray sandstone, 9 x 9 x 9 ins. above ground, firmly set, and marked and witnessed as described by the surveyor General. I destroy all marks of the cor. pertaining to sec. 2, and rebuild a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on W. slope, 40 ft. below bottom of rocky desc.

The true course of this half mile is therefore $S. 89^{\circ} 30' W.$ and the dist., 39.45 chs.

From the $\frac{1}{4}$ sec. cor., I continue

$S. 89^{\circ} 37' W.$, retracing along the S. bdy. sec. 35

19.40 Two Mile Cr., 5 lks. wide, 4 ins. deep, good water, course E., 55 ft. below the $\frac{1}{4}$ sec. cor. Asc.

29.00 Spar. 60 ft. above the cr., projects SE. Desc.

38.24 Fall 33 lks. N. of the old cor. of secs. 2, 3, 34 and 35, on N. bdy. of Tp., which is a gray sandstone, 10 x 8 x 6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. I destroy all marks of the cor. pertaining to secs. 2 and 3, and

Rétracement and Resurvey of the North Boundary of T.28 S., R.25E.

Chains

rebuild mound of stones. 2 ft. base, $1\frac{1}{2}$ ft. high, N: of the cor. stone.

Cor. stands on W. side of top of spur, 5 ft. below the top.

The true course of this half mile is therefore $S.89^{\circ}28'W.$, and the dist., 39.54 chs.

September 27: At this cor., I set off $1^{\circ}23\frac{1}{2}'S.$ on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat., is $38^{\circ}25'$.

Land on the mile, mountainous, general S. drainage into Two Mile Cr., except the E.22.10 chs. which drains E. into Hop Cr.

Soil, light brown sandy and gravelly loam, shallow on rocky sandstone sub-soil, 3rd. rate.

Scattering yellow pine timber, occurs on the mile. in the eastern part.

Undergrowth, sage, sarvice and oak brush, and good grass for grazing.

$S.89^{\circ}57'W.$, retracing along the S. bdy. of sec. 34.

Over mountainous land in bottom of Two Mile Canyon, desc. to W. fork of Two Mile Cr., through sage brush.

3.00 Enter scrubby aspen timber, and dense willow, bear N. and S.

5.10 W. fork of Two Mile Cr., 3 lks. wide, 3 ins. deep, course SE., good water, rocky bottom, gentle current, 20 ft. below the cor. Thence begin asc. to top of mesa.

5.20 Leave scrub aspens and willow undergrowth, bear NW. and SE., and enter sarvice and oak-brush undergrowth, bears same.

6.96 The closing cor. of secs. 2 and 3 is later set on true line 7 lks. S. of this point. (See line bet. secs. 2 and 3 for description)

16.50 Asc. more rapidly to mesa, bears NW. and SE., also enter scattering groves of aspen timber, bears same.

Retracement and resurvey of the North Bdy. of T.28 S., R.25 E.

Chains	
23.50	Asc. abruptly over sandstone ledges, bear NW. and SE. Leave oakbrush undergrowth, bears same.
24.80	Top of ledges, bear NW. and SE. Thence asc. rapidly to top of mesa.
26.00	Top of main mesa, bears N30°W. and S.30°E., 285 ft. above the creek. Also, barbed wire fence, bears same. Thence desc. abruptly into Hang Dog Draw, and enter scattered yellow pine timber., bears NW. and SE.
33.00	Hang Dog Draw, 80 ft. below top of mesa, drains SE., and heads in the rim of the mesa about 8 chs. NW. Thence asc. abruptly to top of mesa.
35.00	Top of mesa, bears NW. and SE., 80 ft. above the draw. Thence over rolling top of mesa, drains SE.
39.25	Fall 36 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a granite, 12 x 4 x 8 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. I destroy all marks of the cor. pertaining to sec. 3, and renew marks on the B.T. for sec. 34, as follows: A yellow pine, 10 ins., diam., bears N.25°W., 57 lks. dist., marked $\frac{1}{4}$ S 34 BT. The true course of this half mile is therefore S. 89°25'W. and the dist., 39.25 chs. I continue from the $\frac{1}{4}$ sec. cor., S.89°57'W., retracing along the S. bdy. sec. 34. Asc. gradually over rolling mesa, through yellow pine timber, and sage and oak brush undergrowth.
2.95	Road, from La Sal to Geyser Pass, bears S.15°W. and N. 30°E. Gate in E. and W. fence bears S.15°W., 1.00 ch. dist.
24.00	Enter aspen timber, bears N. and S.
28.00	Ridge, 160 ft. above the $\frac{1}{4}$ sec. cor., bears N30°W. and S. 30° E., thence desc. gradually.
35.00	Leave aspen timber, bears N. and S.
39.92	Fall 43 lks. N. of the old cor. of secs. 3, 4, 33 and 34, on the N. bdy. of the Tp., which is a granite, 14 x 9

Retracement and Resurvey of the N. Bdy. of T.28 S., R.25 E.

Chains

x 6 ins. above ground, loosely set in a mound of stones, and marked and witnessed as described by the Surveyor General. Cor. stands under wire fence, bears E. and W. I destroy all marks of the cor. which pertain to secs. 3 and 4. I reset stone firmly in the ground, 2 ins. deeper, and restore the B.T.'s for secs. 33 and 34 as follows:

A yellow pine, 30 ins. dia., bears N.50°E., 75 lks. dist., marked T 27 S R 25 E S 34 BT

A yellow pine, 40 ins. diam., bears N.30°W., 105 lks. dist., marked T 27 S R 25 E S 33 BT

The true course of this half mile is therefore S.89°20'W. and the dist., 39.92 chs.

Land, rough mountainous and rolling mesa,

Soil, on slopes and brow of mesa, sandy rocky on sandstone, 3rd. rate; soil on the mesa, light red sandy and gravelly loam, mixed with gravel, shallow on sandstone formation, 2-3rd. rate.

Timber, yellow pine, of commercial value, and scrub aspens.

Undergrowth, sage, sarvice, oakbrush, and willows along Two Mile Cr., and good grass for grazing.

September 27, 1915.

September 28: At 8^h00^m a.m., l.a.t., I set off 38°25' on the lat. arc; 1°44'S. on the de cl. arc, and determine a meridian with the solar at the cor. of secs. 33 and 34, on the N. bdy. of the Tp.

Thence I run S.89°57'W., retracing along the S. bdy. of sec. 33

Over rolling mesa land, desc. gradually through yellow pine timber, and sarvice and oakbrush, and scattered sage brush, along E. and W. wire fence.

7.70 The closing cor. of secs. 3 and 4 is later set on true line, 31 lk. S. of this point. See line bet. secs. 3

Retracement and Resurvey of the North. Bdy. of T.28 S., R.25 E.
Chains

and 4 for description of C.C.)

8.50 Pole corral bears N., 1 ch. dist. to N. edge.

26.30 Ravine, 125 ft. below cor., drains S. Enter scattering patches of aspen timber, bear N. and S. Asc. to ridge.

39.82 Fall 7 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a gray sandstone, 6 x 4 x 6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

I destroy all marks of the cor. pertaining to sec. 4. and restore the B.T. for sec. 33 as follows;

A yellow pine, 30 ins. dia., bears N.50°E., 75 lks. dist., marked $\frac{1}{4}$ S 33 BT.

The cor. stands on ridge, bears N. and S., 125 ft. above the ravine.

The true course of this half mile is therefore S.89°51'W. and the dist., 39.82 chs.

From the $\frac{1}{4}$ sec. cor.,

S.89°57'W., retracing along the S. bdy. sec. 33

Along wire fence, bears E. and W., desc. into small gulch.

2.00 Small gulch, 40 ft. below the $\frac{1}{4}$ sec. cor., drains S. Asc.

18.00 Flat, Spur, 60 ft. above gulch, projects S. Desc.

29.50 Small wash, 30 ft. below spur, drains S. Asc.

32.00 Low spur, 40 ft. above wash, projects S. Desc. to ravine.

40.15 Bottom of ravine, 70 ft. below spur, drains SW.

Fall 27 lks. N. of the old cor. of secs. 32, 33, 4 and 5, on N. bdy. of Tp., which is a red sandstone, 24 x 12 x 5 ins., lying loose on old mound of earth, properly mkd.

I destroy all marks of the cor. pertaining to secs. 4 and 5, and re-establish cor. at same point as follows:

Re-set stone 16 ins. in the ground, with the 2 notches on the E. and 4 notches on the W. edge, for the cor. of secs. 32 and 33,

from which

A yellow pine, 40 ins. dia., bears N.40°E., 20 lks. dist., marked T 27 S R 25 E S 33 BT

Retracement and Resurvey of the North Bdy. of T.28 S., R.25 E.

Chains

A yellow pine, 40 ins. diam., bears N.45°W., 100 lks.
dist., marked T 27 S R 25 E S 32 BT

The true course of this half mile is therefore S.89°34'W.,
and the dist., 40.15 chs.

Land, rolling and uneven mesa, with washes and ravines
draining S.

Soil, sandy, gravelly black loam, 2-4 ft. deep, on sand-
stone subsoil, 2nd. rate.

Timber, yellow pine, and scrub aspen timber. The pine
timber is of commercial value.

Undergrowth, sage, oak and sarvice brush, and good grass
for grazing purposes.

From the restored cor. of secs. 32 and 33, on the N. bdy.
of Tp., I run

S.89°57'W., retracing along the S.bdy. of sec. 32.

Over mountainous mesa land, asc. from ravine through yel-
low pine timber, scrub aspens and oak brush, along wire
fence, bears E. and W.

4.00 Spur, 20 ft. above the cor., projects S., 10 chs. Desc.

7.88 The closing cor. of secs. 4 and 5 is later set on true
line, 6 lks. S. of this point. For description of the
C.C., see line bet. secs. 4 and 5.

10.00 Desc. more rapidly, bears NW. and SE.

15.34 N. fork of Beaver Cr., 6 lks wide, 2 ins. deep, course
SE., in bottom of Canyon 120 ft. below spur. Asc.

20.50 Spur, 180 ft. above creek, projects SE. Desc.

23.00 Ravine, 80 ft. below spur, drains SE. Asc.

27.00 Spur, 70 ft. above the ravine, projects SE. Desc.

38.97 Fall 30 lks. N. of the old $\frac{1}{4}$ sec. cor., which is a sand-
stone, 10 x 5 x 4 ins. above ground, firmly set, and
marked and witnessed as described by the Surveyor Gene-
ral.

I destroy all marks of the cor. pertaining to sec. 4. and
and 5, and

Retracement and Resurvey of the North Bdy. of T.28 S.R 25 E.

Chains

restore the BT. for sec. 32, as follows:

A yellow pine, 20 ins. dia., bears N.40°W., 55 lks. dist., marked $\frac{1}{4}$ S 32 BT.

Cor. stands on SW slope, 40 ft. below spur.

The true course of this half mile is therefore S.89°30'W. and the dist., 38.97 chs.

September 28: At this cor., I set off 1°48'S. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°25'

From the $\frac{1}{4}$ sec. cor.,

S.89°57'W., retracing along S. bdy. sec. 32.

Desc. to Beaver Cr. Canyon, over SW. slope.

14.00 Beaver Cr., 18 lks. wide, 4 ins. deep, course S.60°E., good water, swift current, stony bottom in canyon 70 ft. below spur. Asc.

24.00 Ridge, 100 ft. above creek, bears NW. and SE. Desc. Also leave yellow pine timber, bears NW. and SE., and enter more dense aspen timber.

39.60 Fall 68 lks. N. of the old cor. of secs. 5, 6, 31 and 32, on N. bdy. of Tp., which is a sandstone, 10 x 10 x 10 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

I destroy all marks of the cor. pertaining to secs. 5 and 6, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor. There are no suitable B.T.s; in secs. 31 and 32.

The cor. stands on N. side of bottom of wash, 40 ft. below spur.

The true course of this half mile is therefore S.88°58'W. and the true dist., 39.61 chs.

Land on the mile, mountainous mesa, cut by washes and ravines draining SE.

Soil, sandy and gravelly black loam, moist, 2 ft. deep on stony sandstone formation, 2-3rd. rate.

Timber, yellow pine, of commercial value, and aspens.

Retracement and Resurvey of the North Bdy. of T.28 S., R.25 E.

Chains	Undergrowth, oak brush, and good grass for grazing.
	From the cor. of 31 and 32, on the N. Bdy. of T.p., I run S.89°57'W., retracing along the S. bdy. of sec. 31 Over rolling mesa, desc. to wash through scrub aspen timber, oak brush, along wire fence, bears E. and W.
7.00	Enter dry wash, drains from the W. to SE, also enter dense willows, bear NW. and SE, and leave aspen timber, bears same. Thence follow up bottom of dry wash, asc.
9.32	The closing cor. of secs. 5 and 6 is later set on true line, 6 lks. N. of this point. For description of the C.C., see line bet. secs. 5 and 6., in this book.
35.00	Leave dry wash, drains from the NW. to the E., also leave dense willow undergrowth, bears NW. and SE., and enter aspen timber, bears same.
39.82	Fall 24 lks. S. of the old $\frac{1}{4}$ sec. cor., which is a sandstone, 12 x 8 x 10 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General. I destroy all marks of the cor. pertaining to sec. 6. The cor. stands on slope facing NE., 75 ft. above the sec.cor. The true course of this half is therefore N.89°42'W. and the dist., 39.82 chs. From the $\frac{1}{4}$ sec. cor, S.89°57'W., retracing along S. bdy. sec. 31.
.30	Spur, 5 ft. above $\frac{1}{4}$ sec. cor, projects S.70°E. Desc.
6.30	Spring branch, 3 lks. wide, 2 ins. deep, course SE. Good water, 25 ft. below spur. Asc.
15.50	Spur, 70 ft. above the creek, projects SE., 4 chs. Desc.
25.50	Creek, 3 lks. wide, 4 ins. deep, course S.60° E., good water, 25 ft. below spur. Asc.
31.35	Spur, 35 ft. above creek, projects SE. Desc. Leave

Retracement and Resurvey of the North Bdy. of T.28 S., R.26 E.

Chains

aspen timber, bears N. and S.

36.30 Dry wash, 30 ft. below spur, drains S.55°E. Asc.

39.51 Fall 49 lks. N. of the old cor. of Ts. 27 and 28 S., Rs. 24 and 25 E., which was re-established by me on September 9, for the cor. of T.27 S., Rs. 24 and 25 E.

(Note.- See page 2 of the notes of the survey of the W. Bdy. of this Tp. for description of the cor.)

Cor. stands on slight SE. slope, 40 ft. above the wash.

The true course of this half mile is therefore S.89°15'W., and the dist., 39.51 chs.

From the cor. of T.27 S., Rs. 24 and 25 E., the closing cor. of T. 28 S., Rs. 24 and 25 E., set by me on September 9, which is described on page 2 on the notes of the survey of the W. Bdy. of the Tp., bears West, 19.40 chs. Dist.

Land on the mile, mountainous, with general SE. drainage

Soil, dark sandy loam, gravelly and stony in places, 2 ft. or more deep on sandstone and stony clay subsoil, 2-3rd. rate.

Timber, scrub aspen, of small commercial value.

Undergrowth, scrub oak brush, dense willows, and splendid grasses for grazing purposes.

September 28, 1915.

Subdivisions of T.28 S., R.25 E.

Chains	
	September 17: For solar observation this day, see line bet. secs. 31 and 36, on the E. bdy. of the Tp. From the old cor. of 25, 26, 35 and 36, heretofore described, I run East, on true line, bet. secs. 25 and 36, knowing that this line will not close on the E. bdy. within limits. Over mountainous land, asc. gradually over bench land sloping S., through sage brush undergrowth.
.22	Wire fence, bears N.3°E. and S.3°W.
1.80	Telephone line, from the La Sal Ranger Station, to Paradox, Colo., bears N.35°W. and S.35°E/ Enter cedar and pinon timber, bears N. and S., thence continue asc. over rocky land.
9.00	Brush fence, bears N. and S. Also top of asc. bears N. and S., 55 ft. above the cor. From this point, the chimney on Geo. Stock's house bears S.16°30'E. Thence desc. over rocky and stony land, strewn with huge sandstone boulders, timber becomes more dense.
20.40	Gulch, 110 ft. below top of asc., drains S. Asc.
27.00	Spur, 25 ft. above the gulch, projects S., 3 chs. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	<div style="text-align: center;">S 25 <u>$\frac{1}{4}$</u> ✓</div>
	<div style="text-align: center;">S 36</div>
	<div style="text-align: center;">1915</div>
	from which
	A pinon, 7 ins. dia., bears N.22 $\frac{3}{4}$ °W., 115 lks. dist. marked $\frac{1}{4}$ S 25 BT
	A pinon, 5 ins. dia., bears S. 19°W., 59 lks. dist., marked $\frac{1}{4}$ S 36 BT
	Cor. stands on bench sloping SE., 60 ft. below spur.
45.00	Gulch, 50 ft. below the $\frac{1}{4}$ sec. cor., drains S. Asc.
51.00	Spur, 40 ft. above gulch, projects 3 chs. S. Desc.
52.80	Gulch, 30 ft. below spur, drains S. Asc.
60.40	Brush fence, bears N. and S.

Subdivision of T.28 S., R.25 E.

Chains

62.50 Spur, 105 ft. above gulch, projects 3 chs. S. Desc.

69.40 Gulch, 70 ft. below spur, drains S. Asc.

71.50 Spur, 40 ft. above gulch, projects 3 chs. S. Desc.

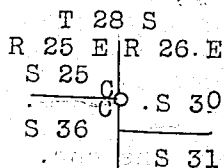
82.20 Huge sandstone boulder, 20 x 15 x 10 ft. High, on line.

84.57 Road, from Stock's ranch to timber, bears N.60°E. and
S.60°W.

85.59 Intersect the East bdy. at 2.66 chs. N.0°01'W. of the cor.
of secs. 25, 30, 31 and 36, heretofore described.

At the intersection, set an iron post, 3 ft. long, 2 ins.
dia., 24 ins. in the ground, for closing cor. of secs.

25 and 36, with brass cap marked



1915

from which

A pinon, 13 ins. dia., bears N.42½°W., 18½ lks. dist.,

marked T.28 S. R.25 E. S.25 BT

A pinon, 10 ins. dia., bears S.26½°W., 22 lks. dist.,

marked T.28 S. R.25 E. S.36 BT

Cor. stands on bench land, sloping SE., 80 ft. below spur.

I destroy all marks of the cor. of secs. 25, 30, 31 and

36, on E. bdy. of Tp., pertaining to secs. 25 and 36.

The ¼ sec. cor. bet. secs. 31 and 36, on E. bdy. of Tp.,

will remain as the ¼ sec. cor. of two secs.

Land, rough mountainous, bench land sloping generally S.,

cut by rocky gulches draining S.

Soil, rocky sandy coarse loam, shallow on sandstone for-

mation, 3-4th. rate.

Cedar and pinon timber on the miles

Undergrowth, sage, and some scattered oak brush, and fair

grasses for grazing purposes.

Subdivision of T.28 S., R.25 E.

Chains

September 18: At 8^h00^m a.m., l.a.t., I set off 38°22' ✓
 on the lat. arc; 2°09½' N. on the decl. arc, and de-
 termine a meridian with the solar at the old cor. of
 secs. 22, 23, 26 and 27; heretofore described. 00.00

Thence I run

East, on random line, bet. secs. 23 and 26

40.00 Set temp. point for secs. 23 and 26.

80.00 Set temp. point for the cor. of secs. 23, 24, 25, 26.

From the temp. point for cor. of secs. 23, 24, 25 and 26,

I run

South, on random line, bet. secs. 25 and 26.

40.00 Set temp. point for ¼ sec. cor.

80.30 Fall 1.09 chs. W. of the old. cor. of 25, 26, 35 and
 36, heretofore described.

Thence, from the cor. of 25, 26, 35 and 36,

North, on true line, bet. secs. 25 and 26.

Over mountainous land, asc. gradually through sage brush.

1.10 Telephone line, from the La Sal Ranger station to Para-
 dox, Colo., bears N.35°W. and S.35°E. Also, enter
 pinon and cedar timber, bears Same.

5.60 Asc. broken sandstone ledges, bear NW. and SE.

11.70 Top of broken ledges, bear NW. and SE, thence continue
 steep asc. to top of mesa.

21.00 Top of mesa, bears NW. and SE., 285 ft. above the cor.,
 thence over rolling mesa land, draining S., asc. grad-
 ually.

40.15 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
 ground, for ¼ sec. cor., with brass cap marked

S 26½ S 25 ✓

1915

from which

A pinon, 12 ins. dia., bears east, 31 lks. dist.,

Subdivision of T.28 S., R.25 E.

Chains

mkd. $\frac{1}{4}$ S 25 BT

A pinon, 8 ins. dia., bears S.76°W., 35 lks. dist.,

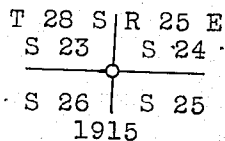
marked $\frac{1}{4}$ S 26 BT

60.00 Top of asc., bears NW. and SE., 40 ft. above the $\frac{1}{4}$ sec. cor., thence desc. gradually through cedar and pinon timber.

66.00 Wood road, from the Ranger Station to timber, bears NW. and SE.

80.30 Intersect E. and W. line at 1.09 chs. E. of the temp. cor. of secs. 23, 24, 25, and 26.

At intersection, set an iron post; 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 23, 24, 25 and 26, with brass cap marked



from which

A pinon, 8 ins. dia., bears N.75°E., 72 lks. dist.,

mkd. T 28 S R 25 E S 24 BT

A pinon, 6 ins. dia., bears S.60°E., 53 lks. dist..

mkd. T 28 S R 25 E S 25 BT

A pinon, 5 ins. dia., bears S.14°W., 75 lks. dist.,

mkd. T 28 S R 25 E S 26 BT

A pinon, 6, ins. dia., bears N.50°W., 120 lks. dist.,

mkd. T 28 S R 25 E S 23 BT

Cor. stands on mesa sloping NE., 30 ft. below top of asc.

September 18: At this cor., I set off 2°05'N. on the decl arc, and at apparent noon observe the sun on the meridian; the resulting lat. is 38°22'.

Land, rough mountainous and rolling mesa, drainage S. and NE. from the top of the mesa.

Soil, on steep slopes, rocky sandstone loam, shallow on sandstone formation, 4th. rate; on the mesa, red sandy loam, coarse texture, 2 ft. or more deep on stony sub-soil, 1-2nd. rate.

Subdivisions of T.28 S., R.25 E.

Chains

Timber, cedars and pinon on the mile.

Undergrowth, sage brush on the S end, and good grasses for grazing purposes.

From the cor. of secs. 23, 24, 25 and 26,
West, on true line, bet. secs. 23 and 26.

Over rolling mesa, asc. gradually through cedar and pinon timber, and scattered sage brush undergrowth.

30.00 Top of asc., bears N.70°W. and S.70°E. Desc. gradually.

35.10 Dim wood road, bears NW. and SE. Also leave timber, bears N. and S., and enter sage brush park, bears same.

37.50 Enter cedar and pinon timber, bears N. and S., and leave sage brush, bears same.

41.09 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for sec. cor., with brass cap marked

S 23

S 26

1915

from which

A pinon, 10 ins. dia., bears N.46°W., 74 lks. dist.,
marked $\frac{1}{2}$ S 23 BT

A pinon, 6 ins. dia., bears S.82½°E., 76 lks. dist.,
marked $\frac{1}{2}$ S 26 BT

Cor. stands on slight SW. slope, 30 ft. below top of asc.

52.00 Gulch, 40 ft. below the cor., drains S.25°W. Asc.

53.10 Wood road, from the La Sal road to timber, bears NW. and SE.

59.00 Top of asc., 60 ft. above gulch, bears NW. and SE. Desc.

66.00 Leave pinon and cedar timber, bears NW. and SE., and enter scattering yellow pine timber and sarvice and oak brush undergrowth, bears same.

75.20 Same road to timber, bears NE. and SW.

81.09 The cor. of secs. 22, 23, 26 and 27, heretofore described.

Subdivision of T.28 S., R.25 E.

Chains

Land, rolling mesa, general SW. drainage.
Soil, sandy gravelly loam, stony with sandstone outcrop
on W. part, 3rd. rate., sandstone subsoil.
Timber, pinon and cedars, with scattering yellow pine
on the W. end.
Undergrowth, sage, sarvice and oakbrush, with fair grass
for grazing.

From the cor. of secs. 23, 24, 25 and 26,

I run

East, on true line, bet. secs. 24 and 25

Over rolling mesa, desc. gradually through cedar and
pinon timber, and sarvice and oak undergrowth.

14.50 Draw, 40 ft. below cor., drains N.30°E. Asc.

25.50 Spur, 30 ft. above the draw, projects 20 chs. NE. Desc.

35.00 Desc. abruptly to Two Mile Cr., bears N. and S.

38.15 Side gulch, 120 ft. below spur, drains N.50°E. Asc.

Leave pinon and cedar timber, bears N. and S., and
enter dense sarvice and buck brush., bears same.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. into
the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 24

$\frac{1}{4}$

S 25

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of the cor.

No suitable bearing trees within limits.

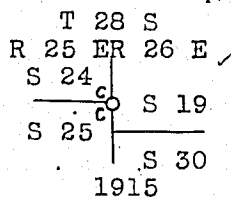
Cor, stands on N. point of spur, on steep N. slope, 30
ft above the gulch.

Thence desc. directly to Two Mile Cr., through dense,
heavy undergrowth of buck, sarvice and oak brush.

60.50 Enter aspens and willows in bottom of canyon, bears NW.
and SE., and leave dense buck brush.

Subdivision of T.28 S., R.25 E.

- Chains
61.00 Two mile Cr., 10 lks. wide, 6 ins. deep, course S.40°E., good water, swift current, rocky bed, in bottom of Two Mile Canyon, 280 ft. below the $\frac{1}{4}$ sec. cor., bears NW. and SE.
- 61.50 Leave aspens and willows, bear NW. and SE. and enter sarvice and oak brush, bears same. Commence abrupt asc. out of canyon.
- 63.00 Asc. over sandstone ledges, bear NW. and SE., and enter cedar and pinon timber, bears same.
- 75.20 Top of ledges, and rim of mesa, bears N.30°W. and S.30°E., 275 ft. above the creek. Thence over rolling mesa, desc. gradually.
- 85.44 Intersect the E. bdy. of Tp. at 2.93 chs. N.0°01'W. of the cor. of secs. 19 and 30, heretofore described. At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 24 and 25, with brass cap marked



from which

A pinon, 10 ins. dia., bears N.27°W., 58 lks. dist.,

mkd. T 28 S R 25 E S 24 BT

A cedar, 7 ins. dia., bears S.50°W., 46 lks. dist.,

mkd, T 28 S R 25 E S 25 BT

Land on this mile, generally rough mountainous, with

NE. and SW. drainage into Two Mile Cr.

Soil, on mesa, red sandy coarse loam, 2 ft. or more deep

on sandstone subsoil, 2nd. rate; soil on the steep

slopes, rocky, sandy gravelly, shallow on sandstone,

3-4th. rate.

Timber, cedars and pinon, and aspens along the canon

bottom.

Undergrowth, sage, sarvice, oak, buck brush, and willows

Subdivision of T.28 S., R.25 E.

Chains

along the creek bottom, and fair grasses for grazing purposes.

September 18, 1915.

September 20: At 8^h 15^m a.m., l.a.t., I set off 38° 22' on the lat. arc; 1° 23' N. on the decl. arc, and determine a meridian with the solar at the old. cor. of 22, 23 26 and 27, heretofore described.

Thence I run

North, on random line, bet. secs. 22 and 23

40.00 Set temp. point for $\frac{1}{4}$ sec. cor.

80.00 Set temp. point for cor. of secs. 14, 15, 22 and 23.

From the temp. point for cor. of secs. 14, 15, 22 and 23.

I run

West, on random line bet. secs. 15 and 22.

43.83 Fall 97 lks. S. of the old $\frac{1}{4}$ sec. cor. bet. secs. 15 and 22, heretofore described.

Thence, from the $\frac{1}{4}$ sec. cor.,

East, on true line, bet. secs. 15 and 22.

Over rolling mountainous land, asc. gradually through sage and sarvice brush.

33.00 Ridge, 40 ft. above the $\frac{1}{4}$ sec. cor., bears NW. and SE.

Thence desc. gradually.

43.83 Intersect N. and S. line at 97 lks. N. of the temp. point for secs. 14, 15, 22 and 23.

At the intersection, I set an iron post, 3 ft. long, 2 in. dia., 24 ins. in the ground, for. cor. of secs. 22 and 23, with brass cap marked

T 28 S R 25 E

S 15 | S 14 ✓

S 22 | S 23

1915

dig pits, 24 x 24 x 12 ins. in each sec., 6 ft. dist.,

Subdivision of T.28 S., R.25 E.

Chains

... , and raise a mound of earth, 4 ft. base,
2 ft. high, S. of cor. ...
Land, rolling mesa, slight slope SW. and NE. from ridge.
Soil, red sandy coarse loam, 2 ft. or more deep, on gra-
velly clay subsoil, 1-2nd. rate.
Undergrowth, sage and sarvice brush, and fair grass for
grazing.
No timber.

From the cor. of secs. 22 and 23,

I run

South, on true line, bet. secs. 22 and 23

Over rolling mesa land, asc. gradually through sage brush.

27.50 Trail, from La Sal To Paradox, Colo., bears E. and W.

Also top of asc., 30 ft. above cor., bears NW. and SE.

Thence desc. gradually.

40.48 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor. on E. bdy. sec. 22, with brass
cap marked.

S 22 $\frac{1}{4}$ ✓
1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
west of cor.

Cor. stands on slight SW. slope, 10 ft. below top of asc.

40.97 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground. for $\frac{1}{4}$ sec. cor. on W. bdy. sec. 23, with brass
cap marked

$\frac{1}{4}$ S 23 ✓
1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
E. of the cor.

58.15 Enter pinon and cedar and scattering yellow pine timber,
and oak and sarvice brush, bears NW. and SE. Leave

Subdivision of T.28 S., R.25 E.

Chains

dense sage brush, bears same.

67.00 Leave mesa, bears NW. and SE., and desc. into gulch.

77.40 Gulch, 85 ft. below $\frac{1}{4}$ sec. cors., drains S. 30° W. Thence
decs. along E. side of gulch.

80.97 The cor. of secs. 22, 23, 26 and 27, heretofore described.

September 20: At this cor. I set off 1° 19' N. on the
decl. arc and at apparent noon, observe the sun on the
meridian; the resulting lat. is 38° 22'Land, rolling mesa, with general SW. slope and exposure.
Soil, red sandy coarse loam, 2 ft. or more deep on sand
rock sub-soil, becomes more rocky on S. end of mile,
'1-2nd. rate.

Timber, cedars, pinon and scattering yellow pine.

Undergrowth, sage, oak and buck sarvice brush, and good
grass for grazing.From the cor. of secs. 22 and 23, I run
East, on random line, along N. bdy. sec. 23.40.00 Set point. for temp. $\frac{1}{4}$ sec. cor.

80.00 Set temp. point for the cor. of secs. 23 and 24.

September 20, 1915.

September 21: At 8^h 00^m a.m., l.a.t., I set off 38° 22' on
the lat. arc; 1° 00' N. on the decl. arc, and determine
a meridian with the solar at the cor. of secs. 23, 24
25 and 26..

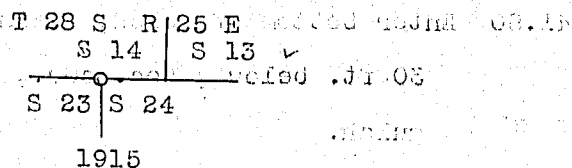
Thence I run

North, on random, bet. secs. 23 and 24.

40.00 Set temp. point for $\frac{1}{4}$ sec. cor.81.00 Intersect E. and W. line at 1.04 chs. E. of the temp.
point for cor. of secs. 23 and 24.At the intersection, set an iron post, 3 ft. long, 2 in.
dia., 24 ins. in the ground, for cor. of secs. 23 and
24, with brass cap marked

Subdivision of T.28 S., R.25 E

Chains



from which

A pinon, 9 ins. dia., bears S.23°E., 80 lks. dist.,
marked T 28 S R 25 E S 24 BT

A pinon, 6 ins. dia., bears S.41°W., 28 lks. dist.,
marked T 28 S R 25 E S 23 BT

Thence,

W. on true line, on N. bdy. sec. 23.

Over mountainous land, asc. to top of mesa, through cedar
and pinon timber, and sarvice brush undergrowth.

- 5.00 Top of mesa, 50 ft. above the cor., bears N. and S. Thence
across level top.
- 8.50 Leave mesa, bears N. and S., and desc. to wash.
- 10.00 Wash, 40 ft. below top of mesa, drains S. Asc.
- 16.50 Spur, 50 ft. above wash, projects 10 chs. S. Desc.
- 21.30 Ravine, 60 ft. below spur, drains S.20°E. Asc.
- 26.85 Ridge, 110 ft. above ravine, bears N.10°W. and S.10°E. Desc.
- 36.25 Canyon, 130 ft. below ridge, drains S.45°E. Scattering
yellow pine in bottom of canyon.
- 37.00 Leave cedar and pinon and scattering yellow pine timber,
bears N. and SE., and enter sage and sarvice brush, bears
same.
- 40.00 Spur, 75 ft. above canyon bottom, projects 2 chs. N. Desc.
- 41.04 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{2}$ sec. cor. on N. bdy. sec. 23, with brass
cap marked
- 1
S 23
- 1915
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
S. of the cor.
- Cor. stands on S. side of gulch, 30 ft. below spur.
- Desc. to gulch.

Subdivision of T.28 S., R.25 E.

Chains	
41.80	Enter bottom of gulch, drains from the W. to N.70°E., 30 ft. below $\frac{1}{4}$ sec. cor., thence follow up bottom of gulch.
52.00	Leave gulch, drains from the NW. to the E. Asc. to main mesa.
58.00	Top of steep asc., bears NW. and SE, 90 ft. above gulch, thence asc. gradually over rolling mesa.
74.47	The closing cor. of secs. 14 and 15 is later set at this point. (See line bet. secs. 14 and 15 for description)
81.04	The cor. of secs. 22 and 23.
	Land, rough mountainous on the E. half, and rolling on the W. half; general SE. drainage.
	Soil, on the E. half, rocky stony sandy loam, shallow on sandstone formation, 4th. rate; on the W. half, red sandy and gravelly loam, 2 ft. deep on sandrock sub-soil, 1 and 2nd. rate.
	Timber, cedars, pinon, and scattering yellow pines.
	Undergrowth, sage, oak and sarvice brush, and fair grass for grazing.
<hr/>	
	From the cor. of secs. 23, and 24, 25,
	I run
	South, on true line, bet. secs. 23 and 24.
	Over rough mountainous land, asc. to top of mesa, through cedar and pinon timber, and sarvice undergrowth.
1.00	Top of mesa, 10 ft. above cor., bears NW. and SE. Thence over level mesa.
9.70	Leave mesa, bears NW. and SE., and desc. to canyon.
19.00	Desc. more abruptly, over sandstone ledges, bear NW. and SE. Leave cedar and pinon timber, bears E. and W.
28.90	Bottom of canyon, N.60°W. and S.60°E., 250 ft. below the mesa. Spring branch in botton, 3 lks. wide, 4 ins. deep, course S.60°E., good water. Asc. to spur.
36.72	Spur, 60 ft. above creek, projects 3 chs. S.70°E.

Subdivision of T.28 S., R.25 E.

Chains

- 40.40 Enter aspen timber, bears E. and W.
- 40.80 Bottom of ravine, 110 ft. below spur, drains E. Asc.
- 41.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $23\frac{1}{4}$ S 24

1915

from which

An aspen, 8 ins. dia., bears S. $25\frac{1}{2}^{\circ}$ E., 44 lks. dist.,
marked $\frac{1}{4}$ S 24 BT

An aspen, 9 ins. dia., bears N. 9° W., 53 lks. dist.,
marked $\frac{1}{4}$ S 23 BT

Cor. stands on N. slope, 20 ft. above ravine.

September 21: At this $\frac{1}{4}$ sec. cor, I set off $0^{\circ}55'$ N. on the decl arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}22'$

- 41.50 Leave aspen timber, bears E. and W.
- 43.00 Trail, from Paradox, Colo., to La Sal, Utah, bears E. and W. Asc.

- 48.00 Top of steep asc, 100 ft. above the cor., bears E. and W.
Thence asc. gradually over rolling mesa.

- 81.00 The cor. of secs 23, 24, 25 and 26.

Land, rough and rolling mountainous, general E. drainage from N. and S. slopes.

Soil, on slopes, sandy and stony coarse loam, shallow on sandstone formation, 3rd. rate; on the rolling mesa, red sandy and gravelly loam, 2 ft. deep on gravelly clay subsoil, -1-2nd. rate.

Timber, cedars and pinon, and some aspen in ravine bottom.

Undergrowth, sage, service brush, and fair grasses for grazing.

From the cor. of secs. 23 and 24,

I run

East, on true line, on N. bdy. of sec. 24.

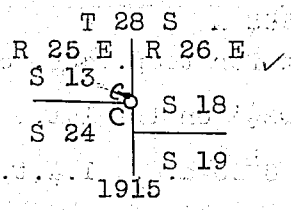
Subdivision of T.28 S., R.25 E.

Chains	
	Over rough mountainous land, desc. from mesa through cedar and pinon timber, and sarvice undergrowth, to Two Mile Creek.
1.00	Desc. more abruptly, bears N. and S.
5.42	The closing Cor. of secs. 13 and 14 is later set at this point. (See line bet. secs. 13 and 14 for description)
10.50	Two Mile Cr., 5 lks. wide, 5 ins. deep, course S.8°E., good water, swift current, rocky bed in bottom of Two Mile Canyon,, bears N. and S., 320 ft. below the cor. Thence asc. abruptly over sandstone ledges, bears N. and S., and enter yellow pine timber, bears same.
25.00	Top of mesa, 370 ft. above the creek, bears N.20°W. and S.20°E., leave yellow pine timber, bears same, and continue through cedar and pinon timber, and sarvice undergrowth, over mesa land, nearly level.
35.50	Desc. from mesa top into draw, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. on N. bdy. sec. 24, with brass cap marked
	$\frac{1}{4}$ S 24 1915
	from which
	A pinon, 6 ins. dia., bears S.29 $\frac{1}{2}$ °E., 120 lks. dist., marked $\frac{1}{4}$ S 24 BT
	Cor. stands on gradual E. slope, 45 ft. below top of mesa.
40.50	Leave cedar and pinon timber, bears N. and S., and enter sagebrush undergrowth, bears same, and scattered clumps of oak brush.
44.60	Draw, 40 ft. below $\frac{1}{4}$ sec. cor., drains S.15°E. Asc.
46.00	Enter cedar and pinon timber, bears N. and S., sage brush becomes thinner.
50.00	Spur, 30 ft. above the draw, projects 3 chs. S. asc.
53.00	Gulch, 20 ft. below spur, drains S.10°W. Asc.
57.50	Spur, 40 ft. above gulch, projects 8 chs. S. Desc.

Subdivision of T.28 S., R.25 E.

chains

- 61.40 Trail, from La Sal, Utah, to Paradox, Colo., bears N.25° E, and S.25°W.
- 61.84 Wash, 33 ft. below spur, drains S.25°W. Asc.
- 65.00 Spur, flat topped, 40 ft. above gulch, projects S. Desc. gradually.
- 72.00 Leave cedars and pinon timber, bears N. and S., thence through sarvice and sage brush.and scattered timber.
- 80.70 Draw, 60 ft. below spur, drains S. Asc. gradually.
- 85.50 Intersect the E. bdy. of the Tp. at 4.00 chd. N.0°01'W. of the cor. of secs. 18 and 19. At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground for closing cor. of secs. 13 and 24, with brass cap mkd.



from which

A pinon, 7 ins. dia., bears N.5°W., 53 lks. dist., mkd. T 28 S R 25 E S 13 BT.

A pinon, 8 ins. dia., bears S.84°W., 147 lks. dist., mkd. T 28 S R 25 E S 24 BT.

Cor. stands on slope facing W., 30 ft. above draw.

Land, rough mountainous, and rolling mesa, with general SE. drainage, from E. and W. slopes.

Soil, on rolling mesa, yellowish red sandy loam, coarse texture, 3 ft. or more deep, on sandstone sub-soil, 2nd. rate; soil on the steep canyon slopes, shallow sandy rocky loam, on sandstone formation, 3-4th. rate.

Timber, cedar and pinon, and scattered yellow pines.

Undergrowth, sage, oak and sarvice brush, and fair grazing grasses on the E. half.

September 21, 1915.

Subdivision of T.28 S., R.25 E.

Chains

September 10: At 9^h15^m a.m., l.a.t., I set off 38°22' on the lat. arc; 5°12' N. on the decl. arc; and determine a meridian with the solar at the old cor. of secs. 19, 20, 29 and 30, heretofore described.

Thence I run

North, on random line, bet. secs. 19 and 20

40.00 Set point. for temp. $\frac{1}{4}$ sec. cor.

80.00 Set point for temp. cor. of secs, 17, 18, 19 and 20

September 10: The sky is overcast at apparent noon, and I am unable to observe the sun for lat.

September 10, 1915.

September 13:

At the point for temp. cor. of secs. 17, 18, 19 and 20, I set off 38°22½' on the lat., arc, 4°05' N. on the decl. arc, and at 8^h00^m a.m., l.a.t., on Sept. 13, determine a meridian with the solar.

Thence I run

East, on random, bet. secs. 17 and 20.

40.96 Fall 72 lks. S. of the old. $\frac{1}{4}$ sec. cor. heretofore described. and re-established as the $\frac{1}{4}$ sec. cor. for sec. 20.

I abandon random, thence; from the $\frac{1}{4}$ sec. cor.,

West on true line, on N. bdy. sec. 20

Over rolling bench land, asc. gradually through sage and scattering oak brush.

3.00 Wash, 3 lks. wide, 1 ft. deep, drains SE.

17.40 Road, from the La Sal road to timber, bears N. and S.

29.00 Draw, bottom is 30 ft. above $\frac{1}{4}$ sec. cor. drains SE. asc.

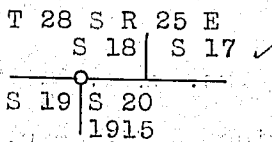
32.35 The closing cor. of secs. 17 and 18 is later set at this point. (See line bet. secs. 17 and 18 for description)

40.96 Intersect my N. and S. line at 72 lks. N. of the temp. point for cor. of secs. 17, 18, 19 and 20.

At intersection, set an iron post, 3 ft. long, 2 ind. dia., 24 ins. in the ground, for cor. of secs. 19 and 20, with brass cap marked

Subdivision of T:28 S.,R.25 E.

Chains



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
S. of the Cor.

September 13: At this cor., I set off $4^{\circ}00\frac{1}{2}'$ N. on the
decl. arc, and at apparent noon, observe the sun on
the meridian; the resulting lat. is $38^{\circ}22\frac{1}{2}'$.

Land, rolling bench land, gradual SE. Drainage.

Soil, light brown sandy and gravelly loam, shallow on
geavelly and stony sandstone subsoil, 3rd. rate.

Sage and oak undergrowth, good grass for grazing.
No timber.

From the cor. of secs. 19, 20, 29 and 30, heretofore des-
cribed,

North, on true line, bet. secs. 19 and 20

Over rolling bench, desc. gradually through sage and oak.

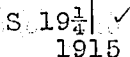
9.20 Gulch, 30 ft. below the cor., drains $S.80^{\circ}E$. Asc.

18.00 Spur, 30 ft. above gulch, projects SE., 30 chs. Desc.

26.15 Deer Creek, now dry, 20 ft. below spur, drains $S.60^{\circ}E$. Asc.

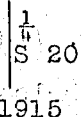
27.50 Road, from La Sal to Geyser saw mill, bears NE. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor. on E. bdy. sec. 19, with brass
cap mkd.



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of the cor.

40.36 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor. on W. bdy. sec, 20, with brass
cap, mkd.



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
E. of the cor.

Cor. stands on slight slope to the S., 70 ft. above the

Subdivision of T.28 S., R.25 E.

Chains	
	creek.
45.00	Flood ditch, 6 lks. wide, 1 ft. deep, drains S.10°W.
46.00	Wash, 4 lks. wide, 2 ft. deep, drains SE
80.72	The cor. of secs. 19 and 20.
	Land, rolling bench, general SE. drainage and slope.
	Soil, light brown sandy and gravelly loam, shallow on gravelly subsoil, 3rd. rate.
	Undergrowth, sage brush and scrub oak brush.
	No timber.
	From the cor. of secs. 19 and 20,
	I run
	West, on true line, bet. secs. 18 and 19
	Over rolling bench land, asc. gradually through sage and oak brush.
17.49	La Sal Live Stock Co. irrigation canal, 6 lks. wide, 1 ft. deep: course S.50°W.; good water.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. on N. bdy. sec. 19, with brass cap marked
	$\frac{1}{4}$
	S 19.
	1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of the cor.
	Cor. stands on bench land, slopes E., 130 ft. above the sec. cor.
55.00	Desc. over left bank of Deer Cr. bottom, bears NW. and SE. Point of desc. is 20 ft. above the $\frac{1}{4}$ sec. cor.
63.15	Deer creek, 12 lks. wide, 4 ins. deep, good water, course S.45°E., 60 ft. below point of desc. on left bank. Thence asc. over bottom land, through aspens and willows.
65.00	Asc. right bank, bears NW. and SE. Thence asc. over foot of La Sal Mountains, and leave aspen and willows, bear

Subdivision of T.28 S., R.25 E.

Chains

NW. and SE. 21.0

81.04 Intersect the W. bdy. of Tp. at 1.52 chs. N. of the cor.
 of secs. 13, 18, 19 and 24, heretofore described.

At intersection, I set an iron post, 3 ft. long, 2 ins.
 dia., 24 ins. in the ground, for closing cor. of secs,
 18 and 19, with brass cap marked

T 28 S	
R 24 E	R 25 E
S 13	S 18 ✓
S 24	S 19
1915	

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
 E. of the cor.

Cor. stands on E. slope of mountain, 170 ft. above the
 creek.

I deface all marks on the cor. of secs. 13, 18, 19 and
 24, which pertain to secs. 18 and 19.

The $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24 will remain as the
 $\frac{1}{4}$ sec. cor. bet. two secs.

Land on the mile, rolling bench land, drainage and expo-
 sure to the SE.

Soil, light brown sandy and gravelly loam, shallow on
 stony subsoil, 3rd. rate.

Timber, aspens. along Deer Cr.

Undergrowth, sage, oak and willows, and fair grass for
 grazing.

September 13, 1915.

September 29: At 8^h00^m a.m., l.a.t., I set off 38°23' on
 the lat. arc, 2°07' S. on the decl. arc, and determine
 a meridian with the solar at the cor. of secs. 7, 12,
 13 and 18, on the E. bdy. of Tp.

Thence I run
 West on sect. corr. line, bet. secs. 12 and 13.

Over rolling mesa, desc. gradually into draw, through

Subdivision of T.28 S., R.25 E.

Chains	
	cedar and pinon timber and sarvice brush undergrowth.
1.00	Leave cedar and pinon timber, bears N. and S., and continue through sarvice undergrowth, and enter sage brush, bears N. and S.
9.50	Bottom of draw, or small gulch, 120 ft. below the cor., drains S.15°W. Asc.
14.00	Enter pinon and cedar timber, bears N. and S., thence over nearly level land, slopes S., asc. gradually.
21.60	Low ridge, 110 ft. above the gulch, bears N. and S. Desc.
25.00	Leave cedar and pinon timber, bears N. and S., thence enter oak brush, bears same, and continue through scattering sarvice and sage.
32.50	Wash, 60 ft. below the ridge, drains S. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	S 12
	$\frac{1}{4}$
	S 13
	1915
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.
	Cor. stands on E. side of flat topped ridge, 30 ft. above the wash.
	Thence continue over flat top ridge, on top of mesa.
54.00	Leave flat topped ridge and mesa, bears N.10°E. and S.10°W., and desc. abruptly over sand stone ledges into Two Mile Canyon.
75.50	Two Mile Cr., 15 lks. wide, 6 ins. deep, course S., good water, in bottom of Two Mile Canyon, bears N. and S., 410 ft. below top of mesa. A fringe of willow undergrowth along creek bottom. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13 and 14, with brass cap marked

Subdivision of T.28 S., R.25 E.

Chains

T 28 S | R 25 E

S 11 | S 12

S 14 | S 13

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of the cor.

Cor. stands on the W. side of the bottom of Two Mile Can-
yon, 40 ft. above the creek.

September 29: At apparent noon, I set off $2^{\circ}11\frac{1}{2}'S.$ on the
decl. arc, and observe the sun on the meridian; the
resulting lat. is $38^{\circ}24'.$

Land, rolling mesa and mountainous, with general S. drain-
age, and E. and W. exposure.

Soil, on the rolling mesa, reddish brown sandy and gravel-
ly loam, 2 ft. or more deep on sandstone subsoil, 2nd.
rate; soil on the canyon slopes, rocky and stony sandy
loam, shallow on sandstone formation, 4th. rate.

Timber, cedar and pinons on the mesa.

Undergrowth, sage, sarvice, oakbrush and willow on the
creek bottom, and good grass for grazing.

From the cor. of secs. 11, 12, 13 and 14,

I run

$S.0^{\circ}02'E.$ on true line, bet. secs. 13 and 14

Over mountainous land, asc. along the west side of bottom
of Two Mile Canyon, through oak, sage and scattering
sarvice brush.

4.50 Commence abrupt asc. over spur projecting E. into Two Mile
canyon, over broken sand stone ledges, bears NW. and SE.,
and enter cedar and pinon timber, bears same.

33.00 Top of high point of spur, 360 ft. above the cor., pro-
jects 3 chs. E. Thence desc. gradually over nearly
flat top of spur.

39.00 Commence abrupt desc. into canyon, over broken sandstone

Subdivision of T.28 S., R.25 E.

- Chains
- ledges, bear NE. and SW.
- 40.00 Point for $\frac{1}{4}$ sec. cor., falls on sandstone ledges, where it would be impossible to perpetuate the cor.
- 41.25 Bottom of sand stone ledges and base of spur, bears NE. and SW. Thence desc. gradually over bottom of a side box canyon, draining SE. and boxing up about 10 chs. N.70°W. Also, enter scattering yellow pine timber, bears NW. and SE.
- 41.50 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., with brass cap marked

T28S | R25E
S 14 $\frac{1}{4}$ S 13
W C

1915

from which

A yellow pine, 18 ins. dia., bears N.58°E., 69 lks.

dist., mkd. WC $\frac{1}{4}$ S 13 BT

A yellow pine, 24 ins. dia., bears S.67 °W., 104 lks.

dist., mkd. WC $\frac{1}{4}$ S 14 BT

Cor. stands on N. side of bottom of side canyon, 300 ft. below top of spur.

- 44.00 Spring branch, 4 lks. wide, 4 ins. deep, course S.75°E., good water, in bottom of side canyon at 5 chs. W. of the junction with Two Mile Cr., 60 ft. below the WC $\frac{1}{4}$ sec. cor. Thence asc. along W. side of Two Mile Canyon. over steep E. slope.

- 50.00 Leave scattering yellow pine timber, bears NW. and SE.

- 76.04 Intersect the N. bdy. of sec. 24 at 5.42 chs. E. of the cor. of secs. 23 and 24. At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 13 and 14, with brass cap mkd.

T 28 S | R 25 E
S 14 | S 13
cc
S 23 | S 24

1915

Subdivision of T.28 S., R.25 E.

Chains

from which

A pinon, 9 ins. dia., bears N.70°E., 12 lks. dist.,
mkd. T 28 S R 25 E S 13 BT

A pinon, 8 ins. dia., bears N.36°W., 48 lks. dist.,
mks. T 28 S R 25 E S 14 BT

Cor. stands on steep E. slope of side of mesa, 370 ft.
above the spring branch.

Land, rough mountainous, steep slopes E. into Two Mile
Canyon.

Soil, rocky stony and sandy loam, shallow on sandstone
formation, 3rd. rate.

Timber, cedars and pinon and scattering yellow pine.

Undergrowth, sage, sarvice and oak brush, and fair grass
for grazing.

September 29, 1915

September 30: At 8^h00^m a.m., l.a.t., set off 38°23' on the
lat. arc; 2°30½'S. on the decl. arc, and determine a
meridian with the solar at the cor. of secs. 11, 12, 13
and 14.

Thence I run

West, on secl. corr. line, bet. secs. 11 and 14.

Over mountainous land, asc. out of Two Mile Canyon through
sage, oak and sarvice brush.

2.00 Base of steep asc., bears N. and S., thence asc. abruptly
over sand stone ledges, bears same, and enter scatter-
ing. cedar and pinon timber., bears same.

7.60 Top of asc., east rim of mesa, bears N.5°E. and S.10°E.,
320 ft. above the cor., thence desc. gradually over
rolling mesa.

14.00 Cedars and pinon become scattering, and sarvice and oak
brush become more dense, bears N. and S.

19.20 Gulch, 30 ft. below top of asc. drains S.40°W. Asc.

22.50 Spur, 25 ft. above gulch, projects 3 chs. S. Desc.

34.20 Pole Springs Canyon, 160 ft. below spur, drains S.15°E.

Subdivision of T.28 S., R.25 E.

Chains	Small spring branch, 2 lks. wide, 3 ins. deep, course S. 15° E., in bottom of canyon. Thence leave cedar and pinon timber, bears N. and S., and asc. through dense sarvice and oak brush.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	<div style="text-align: center;"> S 11 $\frac{1}{4}$ S 14 1915 </div>
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.
	Cor. stands on E. slope, 120 ft. above spring branch.
44.00	Top of mesa, bears NW. and SE., 60 ft. above the $\frac{1}{4}$ sec. cor. Thence desc. gradually through sage, oak and sarvice brush.
70.00	Enter very scattered cedar and pinon timber, bears N. and S.
80.00	Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs. 10, 11, 14 and 15, with brass cap marked
	<div style="text-align: center;"> T 28 S | R 25 E S 10 | S 11 S 15 | S 14 1915 </div>
	from which
	A pinon, 8 ins. dia., bears S. 30° W., 174 lks. dist., mkd. T 28° S R 25 E S 15 BT
	No other B.Ts. available.
	Raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.
	Cor. stands on SW. slope, 70 ft. below top of mesa.
	Land, rough mountainous and rolling mesa, general S. Drainage.
	Soil, on mountainous part, rocky sandy loam, shallow on sandstone formation, 4th. rate, soil on the rolling mesa,

Subdivision of T.28 S., R.25 E

Chains

red brown sandy loam, coarse texture, 2 ft. or more deep on gravelly and stony subsoil, sandstone formation, 2nd. rate.

Undergrowth, sage, sarvice and oak brush, with good grass for grazing.

Timber, cedars and pinon.

From the cor. of secs. 10, 11, 14 and 15,

I run

S.0°02'E., on true line, bet. secs. 14 and 15.

Over rolling mesa, general drainage SE., desc. gradually over SW. slope in to gulch, through sage and oak brush undergrowth.

10.00 Gulch, 80 ft. below the cor., drains S.15°E. into Two Mile creek, Asc.

17.00 Top of asc., low ridge, 20 ft. above the gulch, bears NW. and SE., thence desc. gradually, and enter pinon timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.

S 15 $\frac{1}{4}$ | S 14 ✓

1915

from which

A pinon, 6 ins. dia., bears S.63°E., 149 lks. dist., mkd. $\frac{1}{4}$ S 14 BT

A pinon, 6 ins. dia., bears S.62°W., 166 lks. dist., mkd. $\frac{1}{4}$ S 15 BT

Cor. stands on SW. slope of ridge, 55 ft. below the top of ridge.

47.64 Ravine, 120 ft. below the cor., drains S.35°E., Asc. Also

Subdivision of T.28 S., R.25 E.

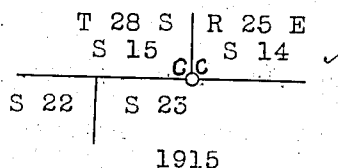
Chains

leave pinon timber, bears NW. and SE.

55.00 Top of asc., from ravine, bears NW. and SE., 65 ft. above ravine, thence over rolling mesa, ascending gradually through sage and oak brush.

76.11 Intersect the N. bdy. of sec. 23 at 6.57 chs. E. of the cor. of secs. 22 and 23.

At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 14 and 15, with brass cap marked



and dig pits, 24 x 18 x 12 ins., crosswise on each line E. and W., 3 ft. dist., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base; 2 ft. high, N. of the cor.

Cor. stands on rolling bench land, sloping gradually to the SE., 10 ft. above the top of asc. from the ravine, in sage and oak brush.

September 30: At this cor., I set off $2^{\circ}35'S$. on the decl. arc, and, at apparent noon, observe the sun on the meridian, the resulting lat. is $38^{\circ}22\frac{1}{2}'$.

Land, rolling mesa, cut by gulch and ravine, draining SE. in to Two Mile Creek.

Soil, red brown sandy loam, 3 ft. or more deep on gravelly subsoil, coarse texture, dry, sand stone formation, 2nd. rate.

Undergrowth, sage, sarvice and oak brush, with fair grass for grazing.

Cedar and pinon timber.

September 30, 1915.

Subdivision of T.28 S., R.25 E.

Chains

October 1: At 8^h 30^m a.m., l.a.t., I set off 38°23' on the lat. arc; 2°54'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run

West, on sect. corr. line, bet. secs. 10 and 15.

Over rolling mesa, desc. into gulch, through sage and oak brush.

5.90 Gulch, 30 ft. below the cor., drains S.30°E. Asc.

12.00 Low ridge, 40 ft. above the gulch, bears NW. and SE.
Desc.

25.90 Gulch, 40 ft. below ridge, drains SE. Asc.

37.00 Low spur, 60 ft. above the gulch, projects SE., 10 chs.
Desc.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 in s. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 10°
 $\frac{1}{4}$

S 15°

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on the W. side of top of spur, in sage and oak brush, 4 ft. below the top.

42.40 Small gulch, or wash, 5 ft. below the $\frac{1}{4}$ sec. cor., drains SE. Asc.

55.00 Low spur, 45 ft. above gulch, projects SE. Desc. into gulch.

66.70 Gulch, 20 ft. below the spur, drains SE. Thence asc. to main top of mesa.

80.00 Top of ridge and mesa, 40 ft. above the gulch, bears N.10°E. and S.10°E., the divide bet. La Sal Cr. and

Subdivision of T.28 S., R.25 E.

Chains

Two Mile Creek.

Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15 and 16, with brass cap mkd.

T 28 S R 25 E

S 9	S 10 ✓
S 16	S 15

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on the top of the ridge.

Land, rolling mesa, E. and W. slopes of spurs and gulches draining SE.

Soil, light sandy and gravelly loam, stony on tops of ridges and spurs, 1 to 2 ft. in depth on gravelly and rocky subsoil, dry, coarse texture, sandstone formation, 2nd. to 3rd. rate.

Undergrowth, sage brush and oak brush, fairly dense, and good grasses for grazing.

No timber on the mile.

October 1: At the cor. of secs. 9, 10, 15 and 16, I set off $2^{\circ}58'$ S. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}23'$.

From the cor. of secs. 9, 10, 15 and 16,

I run

$S.0^{\circ}03'E.$, on true line, bet. secs. 15 and 16.

Subdivision of T.28 S., R 25 E.

Chains

Over rolling mesa, desc. from top of ridge, through sage and oak brush.

23.95 Old road, from the La Sal road to timber, bears N.70°E., and S.70°W. Desc. more rapidly. bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 16 $\frac{1}{4}$ | S 15 ✓

1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor..

Cor. stands on steep SW. slope, 160 ft. below the sec. cor.

From this cor., the old. $\frac{1}{4}$ sec. cor. bet. secs. 15 and 16, heretofore described and defaced of marks, bears S.89° 41°W., 9.14 chs. dist.

60.00 Foot of steep desc., 160 ft. below the $\frac{1}{4}$ sec. cor., bears NW. and SE. Thence over stony meadow land, on the La Sal Creek bottom.

76.24 Intersect the N. bdy. of sec. 22 at 7.45 chs. N.89°36'E. of the old cor. of secs. 15, 16, 21 and 22, heretofore described and restored.

At the intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 15 and 16, with brass cap marked

T.28 S | R 25 E

S 16 | S 15 ✓

S 21 | S 22

1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on stony meadow, in dense oak brush in bottom of La Sal Creek.

I obliterate all marks of the cor. of secs. 15, 16, 21 and 22 that pertain to secs. 15 and 16, and rebuild the mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of the cor.

Subdivision of T.28 S., R.25 E.

Chains

I obliterate all marks on the old $\frac{1}{4}$ sec. cor. bet. secs. 15 and 22, heretofore described, that pertain to sec. 15, and rebuild the mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of the cor.

Land, rolling mountainous, sloping and draining to the SW. into La Sal Creek.

Soil, stony and sandy loam, gravelly in places, coarse texture, shallow on stony sub-soil, sandstone formation, 3rd. rate.

Undergrowth, sage and oakbrush, and fair grasses for grazing.

zing.

No timber.

October 1, 1915.

October 2: At 8^h00^m a.m., l.a.t., I set off 38°23' ON the lat. arc; 3°17'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.

Thence I run

West. on sect. corr. line; bet. secs. 9 and 16.

Over rolling mesa, desc. from ridge, through sage and oak.

18.55 Gulch, 70 ft. below the cor.. drains S. Asc.

26.80 Low ridge, 60 ft. above gulch, bears N. and S. Desc.

39.43 Road, from La Sal to Geyser and the Geyser saw mill, bears N. and SW.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 9

$\frac{1}{4}$

S 16

1915

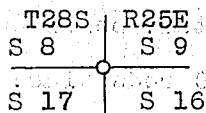
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on W. slope, 40 ft. below the ridge.

50.84 Same road, bears N.30°W., and S.30°E.

Chains

- 58.17 Beaver Creek, 6 lks. wide, 5 ins. deep, course S10°E., good water, 110 ft. below the $\frac{1}{4}$ sec. cor. The creek is lined on each side with dense willows. A wagon bridge crosses creek about 10 chs. N. Asc.
- 63.17 Same road, bears N. and S. Asc. more rapidly.
- 72.00 Top of steep asc, bears N. and S. thence asc. gradually.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, with brass cap marked



1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on slight E. slope, 155 ft. above the creek. Land, rolling mountainous mesa, general S. drainage into La Sal Cr.

Soil, rocky, broken sand stone loam, on stony sub-soil, 3-4th. rate.

Undergrowth, sage and oak brush, and dense willows along the creek; good grazing.

No timber.

From the cor. of secs. 8, 9, 16 and 17,

I run

S.0°04'E., on true line, bet. secs. 16 and 17.

Over rolling mesa or bench land, desc. gradually through sage and oakbrush undergrowth.

- 24.50 Foot of desc.; bears NW. and SE., thence over La Sal Cr. bottom land.

- 31.40 Road, from La Sal to Geyser and the Geyser saw mill, bears NE. and SW.

- 33.00 La Sal Cr., now dry at this point, drains S.80°E. Rocky bottom, 1 chain wide, 90 ft. below the cor.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 17 $\frac{1}{2}$ | S 16

1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on the La Sal Cr. bottom, 10 ft. above the creek bed.

41.00 Leave creek bottom, bears NW. and SE, and asc.

51.00 Sheep corral, 10 rods wide, bears W., 8 chs. dist. Also, road, from the Ranger station to La Sal Pass, bears E. and W.

61.00 Old road, from the La Sal road to the Geyser Pass road, bears NE. and SW.

69.60 Dry ditch, 3 lks. wide, 1 ft. deep, drains S. 65° E.

76.82 Intersect the N. bdy. of sec. 21, at 7.28 chs. N. 89° 08' E. of the re-established cor. of secs. 16, 17, 20 and 21, heretofore described.

At the intersection, I set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 16 and 17, with brass cap marked

T28S	R25E
S 17	S 16
C	
S 20	S 21
1915	

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of the cor.

I destroy all marks on the cor. of secs. 16, 17, 20 and 21 that pertain to secs. 16 and 17, and change this to the cor. of secs. 20 and 21, and rebuild the mound of stone S. of the cor.

I destroy all marks on the $\frac{1}{4}$ sec. cor for secs. 16 and 21 that pertain to sec. 16, and rebuild the md. of stone S. of the cor.

Chains

October 2: At this cor, I set off $3^{\circ}22'S.$ on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}22\frac{1}{2}'$.

Land on the mile, rolling bench, general SE. and NE. drainage into La Sal Cr.

Soil, rocky, stony and sandy loam, shallow on sandrock subsoil, 3rd. rate.

Undergrowth, sage and oakbrush, and fair grasses for grazing.

No timber.

From the cor. of secs. 8, 9, 16 and 17,

I run

West, on secl. corr. line, bet. secs. 8 and 17.

Over rolling bench land, asc. gradually through sage and oak brush.

2.00 Flood ditch, 6 lks. wide, 2 ft. deep, now dry, drains $N.75^{\circ}E.$ and $S.75^{\circ}W.$

28.90 Spur, 130 ft. above the cor., projects SE. Thence desc. abruptly into La Sal Cr. bottom.

30.77 Foot of abrupt desc., 60 ft. below top, bears NW. and SE. Thence desc. over rocky bottom land to La Sal Cr.

40.00 On rocky SW slope, 30 ft. below foot of steep desc.

Set an iron post, 3 ft. long, 1 in. dia., 24 ind. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 8

$\frac{1}{4}$

S 17

1915.

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

October 2, 1915.

October 4: At $8^{h}00^{m}$ a.m., l.a.t., I set off $38^{\circ}23'$ on the lat. arc; $4^{\circ}03\frac{1}{2}'S.$ on the decl. arc, and determine a

Subdivision of T.28 S., R.25 E.

Chains

meridian with the solar at the $\frac{1}{4}$ sec. cor. bet. sec. 8 and 17.

Thence I continue,

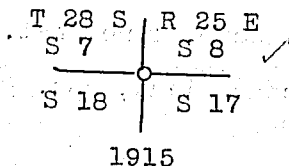
West, on sect. corr. line, bet. sec. 8 and 17,

Desc. into La Sal Cr., through oak and sage brush.

62.00 La Sal Cr., 3 lks. wide, 3 ins. deep, course S.60°E.; the main stream is diverted into the La Sal Live Stock Co. canal, about 5 chs. upstream. Asc.

65.90 La Sal Live Stock Co. canal, 10 lks. wide, water 6 ins. deep, course S.40°E., the intake of the canal is N.40°W., 2 chs. dist. Continue gradual asc. over bottom land.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for the cor. of secs, 7, 8, 17 and 18, with brass cap marked



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on the La Sal Cr. bottom, 70 ft. above the creek, in dense oak and scattered sage brush.

Land, rolling bench and bottom land, general SE. drainage

Soil, on the bench land, light brown sandy and gravelly loam, shallow on broken sandstone subsoil, 3rd. rate; soil, on the bottom land, moist black sandy loam, mixed with stones and rocks, on rocky subsoil, 3rd. rate.

Undergrowth, oak and sage brush, and fair grasses for grazing.

No timber.

From the cor. of secs. 7, 8, 17 and 18,

I run

S.0°04'E., on true line, bet. secs. 17 and 18.

over rolling bench land, asc. from La Sal Creek bottom

Subdivision of T.28 S., R.25 E.

Chains	
3.00	Top of asc., right bank of La Sal creek bottom, bears NW. and SE., 20 ft. above the cor. Thence desc. gradually over rolling bench land.
9.07	Road, from the Ranger Station to the La Sal Pass, bears NW. and SE.
21.74	Wash, 5 lks. wide, 3 ft. deep, drains SE.
31.05	Road, from the La Sal road to mountains and timber, bears NW. and SE.
38.20	La Sal Live Stock Co. canal, 10 lks. wide, 6 ins. deep, course S.75°W., good water.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	$\begin{array}{c} S\ 18\frac{1}{2} \quad S.17 \\ 1915 \end{array}$
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.
	Cor. stands on rolling bench land, 60 ft. below the cor.
42.50	Small gulch, 20 ft. below the cor., drains SE
52.00	Gulch, 30 ft. below the $\frac{1}{4}$ sec. cor, drains SE.
74.00	Draw, 30 ft. below gulch, drains SE., asc.
76.97	Intersect the N. bdy. sec. 20 at 8.61 chs. E. of the cor. of sec, 19 and 20.
	At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 17 and 18, with brass cap marked
	$\begin{array}{c} T\ 28\ S \quad R\ 25\ E \\ S\ 18 \quad S\ 17 \\ \hline S\ 19 \quad S\ 20 \\ 1915 \end{array}$
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.
	Cor. stands on rolling bench, 70 ft. below the $\frac{1}{4}$ sec. cor.
	At this cor., I set off 4°08'S. on the decl. arc; and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°22 $\frac{1}{2}$ '. Observation on Oct. 4.

Subdivision of T.28 S., R.25 E.

Chains

Land, rolling bench land, general SE. drainage and exposure.

Soil, rocky and stony red sandy loam, 2 ft. deep on sandstone formation, 3rd. rate.

Undergrowth, oak and sage brush, and good grasses for grazing.

No timber.

From the cor. of secs. 7, 8, 17 and 18,

I run

West on sec. 1. cor. line, bet. secs. 7 and 18.

Over rolling bench land, asc. from La Sal Cr. Bottom, through oak and sage brush.

5.50 Top of asc. and right bank of La Sal creek bottom, 30 ft. above the cor.; bears NW. and SE. Thence over rolling bench, draining SE.

11.15 Road, from La Sal Pass to the Ranger Station, bears NW. and SE.

32.00 Enter scattering yellow pine timber, bears N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground. for $\frac{1}{4}$ sec. cor. with brass cap marked

S 7

$\frac{1}{4}$

S 18

1915

from which

A yellow pine, 6 ins. dia., bears N.84°E., 50 lks. dist., mkd. $\frac{1}{4}$ S 7 BT

A yellow pine, 10 ins. dia., bears S.64°E., 213 lks. dist., mkd. $\frac{1}{4}$ S 18 BT.

Cor. stands on rolling bench land, at east base of the La Sal Mountains, 170 ft. above the sec. cor.

45.00 Leave rolling bench land, bears N. and S., and asc. abruptly over SE. face of spur of mountains.

Subdivision of T.28 S., R.25 E.

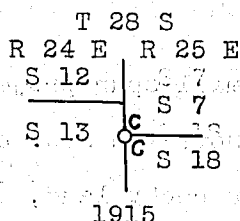
Chains

59.00 Leave scattered yellow pine timber, bears N. and S.

89.67 On steep S. slope of spur of mountain, 530 ft. above the $\frac{1}{4}$ sec. cor.

Intersect the W. bdy. of Tp. at 1.35 chs. S. of the cor. of secs. 7, 12, 13 and 18, heretofore described.

At intersection, set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 7 and 18, with brass cap marked



and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of the cor.

I deface all marks of the cor. of secs. 7, 12, 13 and 18, which pertain to secs. 7 and 18.

I deface all marks of the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18 which pertain to sec. 18.

Land, rolling bench and mountainous, drainage and exposure SE.

Soil, sandy, rocky and stony loam, coarse, and shallow on sandstone formation, 3-4th. rate.

Timber, scattering yellow pines, of commercial value.

Undergrowth, oak and sage brush, and fair grasses for grazing.

October 4, 1915.

October 5: At 8^h00^ma.m., l.a.t., I set off 38°23' on the lat arc; 4°26 $\frac{1}{2}$ 'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 11, 12, 13 and 14.

Thence I run

N.0°02'W, bet. secs. 11 and 12.

Subdivision of T.28 S., R.25 E.

Chains

Over mountainous land, asc. gradually along the west side of the bottom of Two Mile Canyon, through sage and oak brush.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 11 $\frac{1}{4}$ | S 12
1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on small spur projecting E, into canyon bottom, 160 ft. above the sec. cor.

Thence desc. over rocky land, to Two Mile Creek.

62.65 Two Mile Creek, 18 lks. wide, 8 ins. deep, course S.10°E., good water, rocky bottom, 80 ft. below the $\frac{1}{4}$ sec. cor.

Thence asc. over E. side of canyon bottom.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 1, 2, 11 and 12, with brass cap marked

T 28 S | R 25 E
S 2 | S 1
S 11 | S 12
1915

and raise a mound of stone, 2 $\frac{1}{2}$ ft. base, 2 ft. high, W. of the cor.

Cor. stands on E. side of bottom of canyon, 50 ft. above the creek.

Land, mountainous, along bottom of Two Mile Canyon, drains S.

Soil, sandy black loam, stony in places, 2 ft. deep on stony subsoil, 2nd. rate.

Undergrowth, oak and sage brush, and good grass for grazing.

No timber.

October 5: At the cor. of secs. 1, 2, 11 and 12, I set off 4°31 $\frac{1}{2}$ ' S. on the decl. arc, and at apparent noon, observe

Subdivision of T.28 S., R.25 E.

Chains

the sun on the meridian; the resulting lat. is $38^{\circ}24'$.

From the cor. of secs. 1, 2, 11 and 12,

I run

East, on random line; bet. secs. 1 and 12

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.83 Intersect the E. bdy. of Tp. at 7 lks. S. of the cor. of
secs. 1, 6, 7 and 12, heretofore described.

Thence,

S. $89^{\circ}57'W.$, on true line, bet. secs. 1 and 12

Over rolling mesa land, draining SW., desc. gradually
through yellow pine timber and oak and sage brush.

11.20 Leave mesa, bears N. $10^{\circ}W.$ and S. $45^{\circ}E.$, thence desc. abruptly
over sandstone ledges, bear same, into W. fork of
Hop Cr.

13.80 Foot of abrupt desc. bears NW. and SE., thence desc. gra-
dually over canyon bottom, to Hop Cr., left fork. Also
leave yellow pine timber, bears NW. and SE.

19.30 South fork of Hop Creek, now dry, rocky bottom, 20 lks. wide,
220 ft. below the sec. cor., course S. Asc.

19.60 Road, from saw mills to Swain's Homestead, bears N. and S.

28.80 Leave canyon bottom, bears N. and S., thence asc. abruptly
over sandstone ledges, bear same.

32.00 Top of abrupt asc., bears N. and S., 215 ft. above the
creek; thence asc. gradually over rolling mesa, and en-
ter yellow pine timber, bears N. and S.

39.91 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 1
 $\frac{1}{4}$

S. 12

1915

from which

A yellow pine, 16 ins. dia., bears N. $65^{\circ}W.$, 80 lks.

Subdivision of T.28 S., R/25 E.

Chains	<p>dist., mkd. 1 S 1 BT</p> <p>A yellow pine, 20 ins. dia., bears S.83°W., 67 lbs.</p> <p>dist., mkd. 1 S 12 BT</p> <p>Cor. stands on rolling top of mesa on E, slope, 20 ft. above rim.</p>
47.00	Ridge, 20 ft. above the 1 sec. cor., bears N. and S. Desc.
53.25	Gulch, head of side canyon, 30 ft. below ridge, drains S.50°E. Asc.
55.80	Sharp ridge, the W. edge of mesa, 20 ft. above the gulch, bears NW. and SE. Also, leave yellow pine timber, bears NW. and SE. Desc. abruptly. The divide.
56.50	Sandstone ledges, bear NW. and S., 60 ft. high.
58.80	Foot of abrupt desc., bears NW. and S., thence desc. gradually over bottom of Two Mile Canyon, through dense oak brush.
79.83	<p>The cor. of secs. 1, 2, 11 and 12.</p> <p>Land, Rolling mesa and mountainous, general SE. and SW. drainage from the divide bet. Hop and Two Mile Creeks. Soil, on the mesa, reddish sandy loam, coarse texture, 2 ft. deep on gravelly subsoil, sandstone formation, 2nd. rate; soil on ledges, rocky sandstone outcrop, 4th. rate; soil on canyon bottoms, black brown sandy and stony loam, 2 ft. deep on stony subsoil, 2nd. rate.</p> <p>Undergrowth, sage and oakbrush, and good grass for grazing. Yellow pine timber on the mesa tops.</p> <p style="text-align: right;">October 5, 1915.</p>
	<p>October 7: For solar this day see line bet. secs. 2 and 11.</p> <p>From the cor. of secs. 1, 2, 11 and 12,</p> <p>I run</p> <p>N.0°2W on true line, bet. secs. 1 and 2</p> <p>Over mountainous land, asc. over E. side of Two Mile Canyon bottom, through dense oak and sage brush.</p>
29.00	Leave canyon bottom, bears N20°W. and S.20°E., thence a sc.

Subdivision of T. 28 S., R. 25 E.

Chains

- over point of spur projecting S., over sandstone ledges.
- 30.00 Top of point of spur, Projects S., 330 ft. above the cor.
Thence desc. into gulch, over sandstone ledges, bears
NW. and SE.
- 32.90 Gulch, 60 ft. below top of spur, drains S. 10° E. Thence
continue rocky asc., over E. side of gulch.
- 36.00 Leave side of gulch, bears NW. and SE, thence asc. gradu-
ally over rolling mesa, slopes S., also enter yellow
pine timber, bears NW. and SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
S $2\frac{1}{4}$ S 1
1915
from which
A yellow pine, 16 ins. in dia., bears N. 55° W., 146
lks. dist., mkd. $\frac{1}{4}$ S 2 BT
A yellow pine, 8 ins. dia., bears N. $62\frac{1}{2}^{\circ}$ E., 51 lks.
dist., mkd. $\frac{1}{4}$ S 1 BT
Cor. stands on rolling mesa sloping S., 440 ft. above the
sec. cor.
October 7: At this cor. I set off $5^{\circ}17\frac{1}{2}'$ S. on the decl.
arc, and at apparent noon, observe the sun on the meri-
dian; the resulting lat. is $38^{\circ}25'$.
- 68.00 Ridge, the divide bet. Hop and Two Mile creeks, bears NW.
and SE., 170 ft. above the cor. Desc.
- 86.60 Leave rolling mesa, bears NW. and SE., and desc. abruptly
over sandstone ledges, bear same, into Hop Creek.
- 87.50 Foot of abrupt desc., bears NW. and SE., thence desc. gra-
dually over canyon bottom, leave yellow pine timber,
bears NW. and SE. and enter aspen timber, bears same.
- 91.67 Intersect the N. bdy. at 5.85 chs. S. $89^{\circ}30'$ W. of the cor.
of secs. 35 and 36, heretofore described.
At intersection, set an iron post, 3 ft. long, 2 ins. dia.,
24 ins. in the ground, for closing cor. of secs. 1 and

angle 12, with brass cap mkd 20100, temp 1. 1110g. 100g.

S 35	S 36
------	------

S 2 C C S 1
T 28 S

1915

from which

An aspen, 12 ins. dia., bears S.80°E., 103 lks. dist.,

mkd. T 28 S R 25 E S 1 BT

An aspen, 6 ins. dia., bears S.10°W., 103 lks. dist.,

mkd. T 28 S R 25 E S 2 BT

Cor. stands on N. side of S. fork of Hop Cr. Canyon, 95
ft. below ridge.

Land, mountainous, canyon bottoms and mesa, draining NE and SW. from the divide bet. Hop and Two Mile Creeks.

Soil, on canyon bottoms, black sandy and stony loam, fine texture, 2 ft. deep on stony subsoil, 2nd. rate; on mesa rims and ledges, bare sandstone, 4th. rate; on the mesa top, red sandy gravelly loam, 2 ft. deep on sandstone formation, 2nd, rate.

Timber, yellow pine and aspen.

Undergrowth, sage oak brush, and good grasses for grazing.

October 7, 1915.

October 6: At 8^h00^ma.m., l.a.t., I set off 38°23' on the lat. arc; 4°50'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 10, 11, 14 and 15.

Thence I run

N. 0° 02' W., bet. secs. 10 and 11

Over rolling mesa, asc. gradually through sage, oak and
service brush.

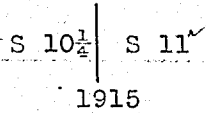
35.00 Flat ridge, 125 ft. above the cor., bears NW. and SE. Thence
desc. very gradually.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the

. Subdivision of T.28 S., R.25 E.

Chains

ground, for $\frac{1}{4}$ sec. cor., with brass cap marked



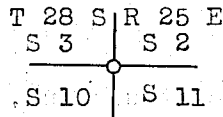
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of the cor.

Cor. stands on slight N. slope, 5 ft. below the ridge.

54.00 Gulch, 55 ft. below the $\frac{1}{4}$ sec. cor., drains SE. Asc. Also
enter scattered yellow pine timber, bears E. and W.

75.00 Spur, 165 ft. above the gulch, projects 10 chs. SE. Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the
ground, for cor. of secs. 2, 3, 10 and 11, with brass
cap mkd.



from which

A yellow pine, 24 ins. dia., bears N.60°E. 108 lks.

dist., mkd. T 28 S R 25 E S 2 BT

A yellow pine, 14 ins. dia., bears S.47°E., 118 lks.

dist., mkd. T 28 S R 25 E S 11 BT

A yellow pine, 6 ins. dia., bears S.29°W., 103 lks.

dist., mkd. T 28 S R 25 E S 10 BT

A yellow pine, 8 ins. dia., bears N.57°W., 61 lks.

dist., mkd. T 28 S R 25 E S 3 BT

Cor. stands on NE. slope of spur 30 ft. below top.

October 6: At this cor. I set off $4^{\circ}54\frac{1}{2}'$ S. on the decl

arc, and at apparent noon, observe the sun on the meri-
dian; the resulting lat. is $38^{\circ}24'$.

Land, rolling mesa, general east slope.

Soil, light brown sandy and gravelly loam, coarse texture,
2 ft. deep on stony sandstone subsoil, 2-3rd. rate.

Timber, yellow pine,

Undergrowth, sage and oak and sarvice brush, with good

Subdivision of T.28 S., R.25 E.

Chains	
	grasses for grazing.
	<hr/>
	From the cor. of secs. 2, 3, 10 and 11, I run East, on random line, bet. secs. 2 and 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor. October 6, 1915.
	October 7: At 8 ^h 15 ^m a.m., l.a.t., I set off 38°24' on the lat. arc, 5°13'S. on the decl. arc, and determine a meridian with the solar at the temp. $\frac{1}{4}$ sec. cor.
	Thence I continue, East, on random line, bet. secs. 2 and 11.
80.11	Fall 14 lks. N. of the cor. of secs. 1, 2, 11 and 12, Thence, N. 89°54' W. on true line, bet. secs. 2 and 11. Over mountainous land in bottom of Two Mile Canyon, desc. to creek through sage and oak brush.
1.60	Two Mile Creek, 18 lks. wide, 8 ins. deep, course S., good water, swift current, rocky bottom, 20 ft. below the cor., Thence asc. to mesa.
12.00	Top of first asc., 125 ft. above the creek, thence over bench land, bears N. and S.
17.00	Leave bench, bears N. and S., thence asc. to mesa. over broken sandstone ledges, bear same.
23.50	Top of asc., rim of mesa, bears N. 40° W. and S. 10° E., 355 ft. above the creek, thence over rolling mesa, and enter yellow pine timber, bears NW. and S.
40.05 $\frac{1}{2}$	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked S. 2 $\frac{1}{4}$ S 11 1915 from which

Subdivision of T.28 S., R.25 E

Chains

A yellow pine, 16 ins. dia., bears N.27°W/. 77 lks.
dist., mkd. $\frac{1}{4}$ S 2 BT

A yellow pine, 16 ins. dia., bears S,59°W.,57 lks.
dist., mkd. $\frac{1}{4}$ S 11 BT.

Cor. stands on top of mesa, sloping S., 20 ft. above the
rim. Thence desc. gradually.

48.00 Ravine, 80 ft. below top, drains S.20°E. Asc.

60.00 Flat spur, 70 ft. above the ravine, projects 30 chs. SE.
Desc.

75.00 Pole Springs Draw, dry, 30 ft. below spur, drains S.20°E.
Asc.

80.11 The cor. of secs.2, 3, 10 and 11, 30 ft. above the draw.
Land, mountainous, canyon bottom, rimrock and mesa, general
SE. drainage.

Soil, on canyon bottom and rim of mesa, rocky sandy loam,
shallow on sandstone formation, 3-4th. rate; on mesa,
light sandy gravelly loam, coarse texture, 2 ft. deep
on stony subsoil, 3rd. rate.

Undergrowth, sage and oak brush, and good grass for gra-
zing.

Yellow pine timber on the mesa.

October 8: For solar observation this day see line bet;
secs. 9 and 10.

From the cor. of secs. 2, 3, 10 and 11,

I run

N.0°02'W. on true line, bet. secs. 2 and 3.

Over rolling mesa, desc. into draw through yellow pine
timber and oak and sage undergrowth.

7.20 Pole Springs Draw, dry, 30 ft. below the cor., drains SE.
Asc.

25.00 Ridge, 150 ft. above the draw, bears NW. and SE. Desc.

38.00 Desc. more rapidly, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the

Subdivision of T.28 S., R.26 E.

Chains

ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $3\frac{1}{4}$ | S 2 ✓

1915

from which

A yellow pine, 24 ins. dia., bears N.16°W., 190 lks.

dist., mkd. $\frac{1}{4}$ S 3 BT

A yellow pine, 24 ins. dia., bears S.14°E., 88. lks.

dist., mkd. $\frac{1}{4}$ S 2 BT

Cor. stands on steep NE. slope, 30 ft. below ridge.

50.00 Hang Dog Draw, 55 ft. below the cor., drains S.30°E. Asc.

57.00 Top of asc., bears NW. and SE., 70 ft. above the draw,
thence over mesa, asc. gradually.

67.65 Wire drift fence, bears NW. and SE. Thence desc. gradually.

70.00 Desc. abruptly from mesa, bears NW. and SE., into Two Mile
canyon; also leave yellow pine timber, bears same.

74.00 Foot of abrupt desc., bears NW. and SE., thence desc.
gradually over bottom of Two Mile Canyon, and enter
scattered aspen timber, bears NW. and SE.

90.81 Intersect. the N. bdy. of Tp. at 6.96 chs. S.89°25'W. of
the re-established cor. of secs. 34 and 35, heretofore
described.

At intersection, set an iron post, 3 ft. long, 2 ins. dia.,
24 ins. in the ground, for closing cor. of secs. 2 and
3, with brass cap marked

T 27 S | R 25 E

S 34 | S 35 ✓

S 3 | S 2

T 28 S

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
S. of the cor.

There are no suitable B.Ts. available.

Land, mountainous, mesa and canyon, general easterly
drainage.

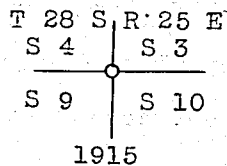
Soil, on the mesa, reddish sandy loam, gravelly and stony

Subdivision of T.28 S., R.25 E.

Chains	<p>in places, 1-2 ft. deep on rocky subsoil, 2nd. rate; soil on steep slopes and canyon bottom, rocky, stony and sandy loam, coarse texture, shallow on sand rock sub-soil, 3-4th. rate.</p> <p>Undergrowth, oak and sage brush, with good grasses for grazing.</p> <p>Timber, yellow pine and scattering aspens.</p> <p>October 8, 1915.</p> <hr/> <p>October 8: At 8^h15^m a.m., l.a.t., I set off 38°23' on the lat. arc; 5°36'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 9, 10, 15 and 16.</p> <p>Thence I run</p> <p>N.0°03'W., bet. secs. 9 and 10.</p> <p>Over rolling mountainous land, asc. gradually along W. side of top of main ridge, the divide bet. Beaver and Two Mile creeks, through sage, oak and sarvice brush.</p> <p>36.00 A lake, $\frac{1}{4}$ acre in area, no outlet, bears E., 5.50 chs. dist. Lake is oddly located in hollow on top of ridge.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap marked</p> <div style="text-align: center;"><p>S 9$\frac{1}{4}$ | S 10 ✓ 1915</p></div> <p>and raise a mound of stone, 2 ft. base, 1$\frac{1}{2}$ ft. high, W. of the cor.</p> <p>Cor. stands on W. side of top of ridge, 120 ft. above the $\frac{1}{4}$ sec. cor.</p> <p>Continue asc. along W. side of ridge, and enter scatter- ing yellow pines, bear NW. and NE.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 3, 4, 9 and 10, with brass cap marked</p>
--------	---

Subdivision of T.28 S., R.25 E.

Chains



from which

A yellow pine, 30 ins. dia., bears N.80°W., 223 lks.

dist., mkd. T 28 S R 25 E S 4 BT

A yellow pine, 30 ins. dia., bears S. 87°W., 237 lks.

dist., mkd. T 28 S R 25 E S 9 BT

No B.Ts. in secs. 3 and 10 within limits.

Raise a mound of stone, 2 ft base, 1½ ft. high, W. of the cor.

Cor. stands on W. slope, 95 ft. above the ¼ sec. cor., in oakbrush.

Land, rolling mountainous, W. slope and drainage into La Sal Creek.

Soil, black sandy, rocky loam, shallow on sandstone and quartzite formation, 3rd. rate.

Undergrowth, oak and sage brush, and good grazing grass.

Scattered yellow pine timber on the N. end of mile.

From the cor. of secs. 3, 4, 9 and 10,

I run

East, on random line, bet. secs. 3 and 10

40.00 Set temp. ¼ sec. cor.

79.86 Fall 12 lks. N. of the cor. of secs. 2, 3, 10 and 11.

Thence,

N.89°55'W., on true line, bet. secs. 3 and 10

Over rolling mountainous land, draining SE., asc. from Pole Springs Draw to spur, through sage and oak brush, and yellow pine timber.

2.00 Leave yellow pine timber, bears N. and S., underbrush becomes more dense.

16.00 Spur. 40 ft. above the cor., projects SE. Desc.

Subdivision of T.28 S., R.25 E.

Chains

23.40 Gulch, 80 ft. below the spur, drains SE. Asc.
 39.93 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cpr., with brass cap marked

S 3

$\frac{1}{4}$

S 10

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,

N. of the cor.

Cor. stands on NE. slope, 120 ft. above the gulch.

October 8: At this $\frac{1}{4}$ sec. cor., I set off $5^{\circ}40\frac{1}{2}'$ S. on the decl arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}24'$.

54.00 Ridge, the divide bet. Two Mile and La Sal Creeks, 20 ft. above the $\frac{1}{4}$ sec. cor., bears N. and S. Desc.

79.86 The cor. of secs. 3, 4, 9 and 10, 60 ft. below the ridge. Land, rolling mountainous, drains E. and W. from the ridge.

Soil gravelly and stony dark brown sandy loam, shallow on stony subsoil, sandstone formation, 3rd. rate.

Undergrowth, sage and oak brush, and fair grasses for grazing.

Yellow pine timber on the E. end of the mile.

October 9: For solar observation this day, see line bet. secs. 8 and 9.

From the cor. of secs. 3, 4, 9 and 10,

I run

N. $0^{\circ}03'$ W. on true line, bet. secs. 3 and 4.

Over rolling mountainous land, sloping W., asc. gradually through sage and oak brush, and scattered yellow pine timber.

8.50 Road, from La Sal to the Geyser Pass, bears N. 20° E. and S. 30° W.

Subdivision of T.28 S., R.25 E.

Chains	
16.90	Pole fence, bears NE. and W., thence leave undergrowth and enter truck garden, extends 50 lks. E. and 3 chs. W., covers about 0.4 acres.
17.50	Pole fence, bears NW. and SE., leave garden, and re-enter oak and sage brush, bears same.
23.00	Board house, belonging to saw mill outfit, bears W., 6.10 chs. dist. stable and out houses around the house.
29.60	Smoke stack on saw mill engine bears West, 4.50 chs. dist. Also gulch, 1 ch. wide, 20 ft. deep, drains SW.
32.30	Logging road, from timber to saw mill, bears N.26°E., and S.26°W.
36.50	Enter more dense yellow pine timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked
	<div style="text-align: center;"> S $4\frac{1}{4}$ | S 3 1915 </div> <p>from which</p> <p>A yellow pine, 16 ins. dia., bears N.66°E., 119 lks. dist., mkd. $\frac{1}{4}$ S 3 BT</p> <p>A yellow pine, 24 ins. dia., bears N.32°W., 46 lks. dist., mkd. $\frac{1}{4}$ S 4 BT</p> <p>Cor. stands on SW. slope, 160 ft. above the sec. cor.</p>
49.50	Same logging road, bears N. and SE. Thence along road,
60.00	Leave road, bears NE. and S.
89.79	Intersect the N. bdy. of Tp. at 7.70 chs. S.89°51'W. of the cor. of secs. 33 and 34, heretofore described.
	At intersection, set an iron post, 3 ft. long, 2 in. dia., 24 ins. in the ground, for closing cor. of secs. 3 and 4, with brass cap marked
	<div style="text-align: center;"> T 27 S | R 25 E S 33 | S 34 S 4 | C | S 3 T 28 S 1915 </div> <p>from which</p> <p>A yellow pine, 23 ins. dia., bears S.55°E., 53 lks.</p>

Subdivision of T.28 S., R.25 E.

Chains

dist., mkd. T 28 S R 25 E S 3 BT

A yellow pine, 10 ins. dia., bears S.3°W., 150 lks.

dist., mkd. T 28 S R 25 E S 4 BT

Cor. stands on SW. slope, 255 ft. above the $\frac{1}{4}$ sec. cor:

Land, rolling mountainous, general SW. drainage and exposure,

Soil, black sandy loam, gravelly and stony in places, 2 ft. deep on stony subsoil, sandstone formation, -1st. to 3rd. rate.

Undergrowth, oak and sage brush, and fair grass for grazing.

Timber, yellow pine of commercial value.

October 9, 1915.

October 9: At 8^h15^m a.m., l.a.t., I set off 38°23' on the lat. arc; 5°59'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 8, 9, 16 and 17.

Thence I run

N.0°04'W.; bet. secs. 8 and 9.

Over rolling mountainous bench land, asc. gradually through sage and oak brush.

.85 Flood ditch, catches flood water from Beaver and La Sal creeks, bears NE. and SW.

25.00 Spur, 145 ft. above the cor., projects 10 chs. E. Desc.

29.20 Gulch, 60 ft. below ridge, drains E. Asc.

32.00 Spur, 40 ft. above gulch, projects 5 chs. E. Desc.

37.40 Draw, 30 ft. below spur, drains E. Small seep springs 2 chs. W. of line.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

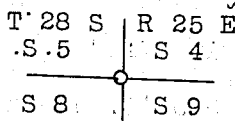
S 8 $\frac{1}{4}$ S 9

1915

and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of the cor.

Subdivision of T.28 S., R.25 E.

- Chains
- Cor. stands on S. slope, 20 ft. above the draw.
- 41.50 Top of flat topped spur, 10 ft. above the $\frac{1}{4}$ sec. cor., projects 10 chs. E. desc.
- 59.30 Spring branch, 6 lks. wide, 4 ins. deep, course E., good water, 15 ft. below spur. Asc.
- 62.00 Small spur, 10 ft. above the spring branch, projects 3 chs. E. Desc.
- 65.00 S. Fork of Beaver Creek, 10 lks. wide, 5 ins. deep, course S.40°E., good water, 10 ft. below spur. Asc.
- 74.00 Gulch, 1 ch. wide, 30 ft. deep, drains SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8 and 9, with brass cap marked



1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor stands, on slope draining S., 110 ft. above the S. Fork of Beaver Creek.

Land, rolling mountainous bench, general E. drainage into Beaver Cr.

Soil, sandy yellowish brown loam, rocky and stony, coarse texture, shallow on rocky subsoil, sandstone formation, 3-4th rate.

Undergrowth, sage and oak brush, and fair grasses for grazing.

No timber.

From the cor. of secs. 4, 5, 8 and 9,

I run

S.89°54'E., on random line, bet. secs. 4 and 9, the cor. of secs. 3, 4, 9 and 10 being visible.

Subdivision of T 28 S., R.25 E.

Chains

- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.01 Intersect the cor. of secs. 3, 4, 9 and 10.
Thence,
N.89°54'W. on true line, bet. secs. 4 and 9
Over rolling mountainous land, draining S., through very
scattered yellow pine timber, and oak and sage brush
undergrowth; desc. gradually.
- 2.20 Draw, 30 ft. below the cor., drains S.20°W. Leave scat-
tered yellow pine timber, bears N. and S. Asc.
- 3.19 Road, from La Sal to Geyser Pass, bears N.20°E. and S. 20°
W.
- 3.60 Road, from La Sal to the Geyser saw mill, bears N. and S.
The junction with the Geyser Pass road bears S., 50 lks.
dist.
- 13.00 Ridge, 30 ft. above the draw, bears N. and S. Desc.
- 35.90 Beaver Creek, 12 lks. wide, 6 ins. deep, course S.20°E.,
good water, 110 ft. below the ridge. Asc.
- 40.00 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec. cor. with brass cap marked
- S 4
 $\frac{1}{4}$
S 9

1915
- and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high,
N. of the cor.
- Cor. stands on NE. slope, 25 ft. above the creek.
- October 9: At this $\frac{1}{4}$ sec. cor., I set off 6°3 $\frac{1}{2}$ ' S. on the
decl. arc, and at apparent noon, observe the sun on the
meridian; the resulting lat. is 38°24'.
- 50.00 Spur, 60 ft. above the $\frac{1}{4}$ sec. cor., projects 20 chs. SE.
Desc.
- 53.25 Gulch, 10 ft. below spur, drains SE. Asc.
- 70.00 Flat ridge, 105 ft. above the gulch, bears NW. and SE.
Thence over nearly level land, sloping slightly SW.
- 80.01 The cor. of secs. 4,5,8 and 9, 5 ft. below ridge.

Subdivision of T.28 S., R.25 E.

Chains

Land, rolling mountainous, general S. drainage into Beaver creek.

Soil, dark brown sandy, stony loam, coarse texture, 1 ft. deep on stony subsoil, sandstone formation, 3-4th. rate.

Undergrowth, sage and oak brush, and fair grasses for grazing.

A few scattered yellow pines on the east. end of the mile.

October 11: For solar observation this day, see line bet. secs. 7 and 8.

From the cor. of secs. 4, 5, 8 and 9,

I run

N. 0° 04' W., on true line, bet. secs. 4 and 5.

Over rolling mountainous land, asc. gradually through oak and sage brush.

20.00 Ridge, 115 ft. above the cor., bears NW. and SE. Desc.

35.20 Wash, 80 ft. below ridge, 10 lks. wide, 4 ft. deep, drains S. 40° E.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $5\frac{1}{2}$ | S 4 ✓

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on slight S. slope, 20 ft. above the wash.

42.00 Flat topped ridge, 20 ft. above the $\frac{1}{4}$ sec. cor., bears NW. and SE. Desc. gradually.

56.00 Gulch, 40 ft. below ridge, drains SE. Asc. Also, enter yellow pine timber, bears NW. and SE.

65.00 Spur, 160 ft. above gulch, projects 10 chs. SE. Desc. abruptly into Beaver Creek.

71.86 Beaver Creek, 18 lks. wide, 6 ins. deep, course S. 25° E., good water, in deep ravine 160 ft. below spur. Asc.

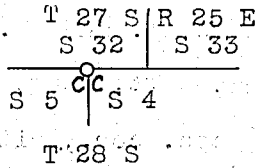
89.55 Intersect the N. bdy. at 7.88 chs. S. 89° 30' W. of the

Subdivision of T.28 S., R.25 E.

Chains

re-established cor. of secs. 32 and 33, heretofore described.

At the intersection, set an iron post, 3 ft. long, 2 in. dia., 24 ins. in the ground, for closing cor. of secs. 4 and 5, with brass cap marked



1915

from which,

A yellow pine, 30 ins. dia., bears S.85°E., 118 lks.

dist., mkd. T 28 S R 25 E S 4 BT

A yellow pine, 16 ins. dia., bears S.3½°W., 87 lks.

dist., mkd. T 28 S R 25 E S 5 BT.

Cor. stands on SW. slope, 130 ft. above the creek.

Land, rolling and rough mountainous, general SE. drainage

Soil, yellow sandy loam, stony and rocky, coarse texture, shallow on stony subsoil, sandstone formation, 3rd. rate.

Undergrowth, oak and sage brush, and fair grasses for grazing.

Yellow pine timber, of commercial value, on the N. half.

October 11, 1915.

October 11: At 8^h00^ma.m., l.a.t., I set off 39°23' on the lat. arc, 6°45'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 7, 8, 17 and 18.

Thence I run

N.0°04'W., bet. secs. 7 and 8.

Over bottom land in La Sal Cr. bottom, dese. gradually through oak and sage brush, rocky soil.

19.40 Enter dense willows, bear NW. and SE.

21.70 La Sal Creek, 8 lks. wide, 6 ins. deep, course SE., good

Subdivision of T.28 S., R.25 E.

Chains

water, swift current, rocky bottom, 20 ft. below cor.
Continue over bottom land, asc. gradually.

24.40 Leave dense willows, bear NW. and SE., thence asc. abruptly, through dense oak and sage brush.

27.00 Top of asc., bears NW. and SE., thence over bench land,

33.80 Leave bench, bears NW. and SE., and asc.

38.70 Top of asc., bears NW. and SE., thence over bench land.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $7\frac{1}{4}$ | S 8
1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on bench land, 120 ft. above the creek.

43.50 Leave bench land, bears NW. and SE., and asc. abruptly.

53.50 Ridge, 170 ft. above the $\frac{1}{4}$ sec. cor. bears N.80°W. and S.80°E. Desc.

62.00 Draw, 30 ft. below ridge, drains E. Thence asc. over irregular hills and hollows with no outlet.

77.80 Top of asc., low ridge, 50 ft. above draw, bears E. and W. Desc. into hollow.

80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap marked

T 28 S | R 25 E
S 6 | S 5
—+—
S 7 | S 8

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands in small depression, 10 ft. below the low ridge.

Land, rolling mountainous and bench land, general drainage SE.

Soil, yellowish brown sandy loam, stony and rocky, shallow

Subdivision of T.28 S., R. 25 E.

Chains

on stony subsoil, sandstone and granite formation; 3-4th. rate.

Undergrowth, oak, sage brush, and willows along the creek, with good grasses for grazing purposes.

No timber.

From the cor. of secs. 5, 6, 7 and 8,

I run

East, on random line, bet. secs. 5 and 8.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.08 Fall 6 lks. N. of the cor. of secs. 4, 5, 8 and 9.

Thence

N.89°57'W., on true line, bet. secs. 5 and 8.

Over rolling mountainous land, asc. through oak and sage brush.

7.00 Spur, 40 ft. above the cor., projects S., 5 chs. Desc.

18.20 S. Fork of Beaver Creek, 3 lks. wide, 4 ins. deep, course S.30°E., good water, 50 ft. below spur. Asc.

32.00 Low ridge, 90 ft. above the creek, bears NW. and SE. Desc.

35.00 Spring branch, small seeps, 20 ft. below ridge in swale, 2 lks. wide, 2 ins. deep, course SE., Asc.

40.04 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 5

$\frac{1}{4}$

S 8

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on small flat, 50 ft. above spring branch.

Thence continue to asc., over irregular hills and hollows, having no general drainage.

72.60 A small lake, no outlet, covering about $\frac{1}{2}$ acre, bears S. of line, the N. edge is 50 lks. dist.

W.P. 101.2 used for road and out.

Subdivision of T.28 S., R.25 E.

Chains

80.08 The cor. of secs. 5, 6, 7 and 8.
October 11: At this cor. I set off $6^{\circ}49\frac{1}{2}'$ S. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is $38^{\circ}24'$.
Land, rolling mountainous, the E. half drains SE, the W. half has no general drainage.
Soil, light brown sandy stony loam, 1 ft. deep on rocky subsoil, sandstone and granite formation, 3rd. rate.
Undergrowth, sage and oak brush, and fair grass for grazing purposes.

No timber.

October 12: At 8^h30^m a.m., l.a.t., I set off $38^{\circ}24'$ on the lat. arc; $7^{\circ}08'$ S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 7 and 8.

Thence I run

West, on true line, bet. secs. 6 and 7.

Over mountainous land, asc. through sage, oak brush.

6.00 Enter scattered patches of aspen timber, bears N. and S.

16.80 Small sheep spring, 3 lks. wide, 3 ins. deep, in hollow .90 ft. above the cor., course SE. Continue asc.

29.50 Ridge, 195 ft above the cor., bears NW. and SE. Desc.

32.38 A sheep corral bears S. $15\frac{1}{2}^{\circ}$ W.

40.00 Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 6

$\frac{1}{4}$

S 7

1915

and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor.

Cor. stands on SW. slope, 60 ft. below ridge.

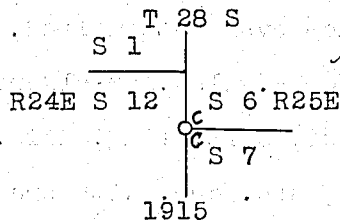
42.96 Gulch, 50 ft. below cor., drains S. to E.

46.71 The same corral bears S. $10\frac{1}{2}^{\circ}$ E.

Subdivision of T. 28 S., R 25 E.

Chains

- 66.34 Road, from La Sal Pass to the Ranger station and the La Sal Road, bears N.60°W. and S.60 °E.
- 77.41 La Sal Creek, 18 lks. wide, 8 ins. deep, course S.20°E., good water, swift current, in rocky bottom of canyon 200 ft. below the $\frac{1}{4}$ sec. cor. Thence asc. abruptly over steep east slope, through dense aspen timber,
- 84.00 Leave aspen timber, bears N. and S.
- 88.00 Spur, rocky, 335 ft. above the creek, projects NE. Desc.
- 89.37 Intersect the W. bdy. of the Tp. at 1.66 chs. S. of the cor. of secs. 1, 6, 7 and 12, heretofore described. At intersection, set an iron post, 3 ft. long, 2 ins. dia., 18 ins. in the ground and 6 ins. in a mound of stone, 2 ft. base, for closing cor. of secs. 6 and 7, with brass cap marked



and raise a mound of stone, 3 ft. base, 2 ft. high, E. of the cor.

Cor. stands on W. slope of top of sharp rocky ridge, 20 ft. below the top.

I destroy all marks of the cor. of secs. 1, 6, 7 and 12, that pertain to secs, 6 and 7.

October 12: At this cor., I set off 7°12'S. on the decl. arc, and at apparent noon, observe the sun on the meridian; the resulting lat. is 38°24'.

I destroy all marks of the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12 that pertain to sec. 7.

I destroy all marks of the sec. cor. of secs. 1 and 6 that pertain to sec. 6.

Land on the mile, rolling and rough mountainous, with general SE. drainage.

Soil light brown sandy, stony loam, 1 ft. deep on stony and rocky subsoil, sandstone and granite formation,

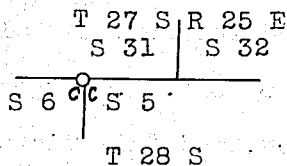
Subdivision of T.28 S., R/25 E.

Chains	
	3 and 4th. rate.
	Undergrowth, sage and oak brush, and fair grasses for grazing.
	Timber, aspens, dense on the W. end.
	<hr/>
	From the cor. of secs. 5, 6, 7 and 8,
	I run
	N.0°04'W. on true line, bet. secs. 5 and 6.
	Over rolling mountainous uneven land, asc. through sage and oak brush, and scattering aspen timber.
27.00	Ridge, 85 ft. above the cor., bears NW. and SE Desc.
39.25	S. Fork of Beaver Creek, 3 lks. wide, 3 ins. deep, course SE., good water, in bottom of canyon, 90 ft. below ridge. Thence over bottom land, and enter willows, bears NW. and SE. also box-elders.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap marked
	S $6\frac{1}{2}$ S 5
	1915
	from which
	A box-elder, 8 ins. dia., bears S.58°E., 12 lks. dist., mkd. $\frac{1}{4}$ S 5 BT
	A box-elder, 7 ins. dia., bears S.42°W., 31 lks. dist., mkd. $\frac{1}{4}$ S 6 BT
	Cor. stands on N. side. of creek, 10 lks. above the bottom.
41.00	Leave creek bottom, and willow and box-elder undergrowth. bear NW. and SE., and asc. through oak and sage brush.
58.00	Top of steep asc., bears NW. and SE., thence asc. gradually to spur.
85.00	Spur, 315 ft. above the $\frac{1}{4}$ sec. cor., projects E., 15 chs. Desc.
88.59	Intersect the N. bdy. at 9.32 chs. N.89°42'W. of the re-established cor. of secs. 31 and 32, heretofore described. At intersection, set an iron post, 3 ft. long, 2 ins. dia.,

Subdivision of T.28 S., R.25 E.

Chains

24 ins. in the ground, for closing cor. of secs. 5 and 6, with brass cap marked



1915

from which

An aspen, 9 ins. dia., bears S.46°E., 43 lks. dist.,
mkd. T 28 S R 25 E S 5 BT

An aspen, 8 ins. dia., bears S.22°W., 34 lks. dist.,
marked T 28 S R 25 E S 6 BT

Cor. stands in bottom of hollow, 30 ft. below spur.

Land, rolling and rough mountainous, general easterly drainage .

Soil, brown sandy rocky loam, coarse texture, 1 ft. or more deep on rocky subsoil, sandstone formation, 3rd. rate.,

Undergrowth, sage, oak, willows, and good grass for grazing.

Timber, aspen and box-elder, along Beaver Creek.

October. 12, 1915.

GENERAL DESCRIPTION

This Tp. lies on the SE. end of the La Sal Range of mountains and the general slope and drainage is to the SE. The W. bdy. takes over one or two high spurs of the main mountains, and the west half of the Tp. consists mainly of the benches sloping SE. from the mountains. In the eastern part, these benches become mesa land, deeply cut by Hop Cr. and Two mile Cr. canyons, which join La Sal Canyon in the next Tp. east.

La Sal Creek enters the Tp. in the NW. part, traversing it in a SE. direction, leaving in the SE. corner.

General Description of T.28 S.,R/25 E.

The creek is in a wide, meadow bottom, and this bottom with the benches on either side, afford good farming possibilities. The major portion of the water in this creek is diverted into the La Sal Live Stock Co, canal, in the SW. cor. of sec. 8. A good stream of water flows in Two Mile Creek, and this may be raised to the benches in the canyon bottom, for irrigation, but the area of land capable of being farmed by irrigation on these benches is limited.

The soil throughout the Tp. is of a sandstone formation, and is generally a reddish brown sandy loam, on rocky subsoil, and quite stony and rocky on the western portion, but affords good dry-farming possibilities in secs. 9,10, 11, 14, 15 and 16.

The N. portion is covered with yellow pine timber, with some aspens, the pine being of commercial value. Dense cedar and pinon pine timber occur on the mesas on the eastern part of the Tp. A good growth of sage oak and sarvice brush covers the major part of the Tp.

A saw mill set, with two houses, stable and out houses is located in the E. part of sec. 4.

James Moore is commencing to make improvements in the NW $\frac{1}{4}$ sec. 22.

Geo. Stocks has a ranch in the NW. $\frac{1}{4}$ sec. 36, consisting of a log cabin, several barns., stables and out buildings, a truck garden, about 50 acres under cultivation, value of improvements, about \$1,000

G. Turner has built a board house in the SE $\frac{1}{4}$ sec. 26, value about \$50.

Some copper stain was found in secs. 15 and 16, on the N. bank of La Sal Cr.

Thos. Rathbone
U. S. Transitman.

latitudes, departures, and closing errors.

Line designated	Course	Distance	Latitudes		Departures	
			N.	S.	E.	W.
E. Bdy. T.28 S.R.25 E.	N. 0°01' W.	491.91	491.91	.....	.....	..0.14
S. Bdy. T.27 S.R.25 E.	S. 89°37' W.	34.06	.....	..0.33	.....	34.06
" Sec. 36	S. 89°50' W.	40.05	.....	0.12	.....	40.05
" Sec. 35	S. 89°30' W.	39.42	.....	0.34	.....	39.42
" " "	S. 89°28' W.	39.54	.....	0.37	.....	39.54
" Sec. 34	S. 89°25' W.	39.25	.....	0.40	.....	39.25
" " "	S. 89°20' W.	39.92	.....	0.40	.....	39.92
" Sec. 33	S. 89°51' W.	39.82	.....	0.10	.....	39.91
" " "	S. 89°34' W.	40.13	.....	0.30	.....	40.13
" Sec. 32	S. 89°30' W.	38.97	.....	0.34	.....	38.97
" " "	S. 88°58' W.	39.61	.....	0.71	.....	39.60
" Sec. 31	N. 89°42' W.	39.82	0.21	.....	.....	39.82
" " "	S. 89°15' W.	39.51	.....	0.52	.....	39.51
" "	West	19.40	.....	.....	.....	19.40
W. Bdy. T.28 S.R.25 E.	South	326.59	.....	326.59	.....	.....
S. Bdy. sec. 19	N. 89°17' E.	40.37	0.50	.....	40.37	.....
" "	N. 89°33' E.	40.66	0.31	.....	40.66	.....
S. Bdy. sec. 20	N. 89°43' E.	40.76	0.20	.....	40.76	.....
" "	N. 89°43' E.	40.08	0.20	.....	40.08	.....
E. Bdy. sec. 20	N. 0°03' W.	40.11	40.11	.....	.....	0.04
" "	N. 0°14' W.	40.12	40.12	.....	.....	0.10
N. Bdy. sec. 21	N. 89°08' E.	38.93	0.59	.....	38.93	.....
" "	S. 89°36' E.	40.98	.....	0.28	40.98	.....
W. Bdy. sec. 22	S. 0°18' E.	80.74	.....	80.74	0.42	.....
S. Bdy. sec. 22	N. 89°48' E.	40.18	0.14	.....	40.18	.....
" "	N. 89°57' E.	40.19	0.04	.....	40.19	.....
W. bdy. sec. 26	S. 0°13' E.	79.41	.....	79.41	0.15	.....
W. Bdy. sec. 35	S. 0°35' W.	83.50	.....	83.50	.....	0.85
S. bdy. sec. 35	S. 89°57' E.	40.25	.....	0.04	40.25	.....
" "	S. 89°53' E.	43.15	.....	0.09	43.15	.....
S. bdy. sec. 36	S. 89°53' E.	43.15	.....	0.09	43.15	.....
" "	N. 89°23' E.	40.73	0.43	.....	40.73	.....
Convergence .....	.....	..0.43	.....	.....	.....	..0.43
Totals			574.76	574.63	490.60	491.19
			574.63	.....	.....	490.60
Error in lat.			0.13	Error in dep.		0.59

J. C. Rathbone
 U. S. Transitman.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

[illegible]

Subscribed and certified to before me on the dates of the final service as shown above.

The O'Rourke

U. S. Surveyor.
Transitman.

FINAL OATH OF UNITED STATES SURVEYOR.

Transitman,

I, Thomas C. Rathbone, U. S. ~~Surveyor~~ ^{Utah} do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20th day of July, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the resurvey of the Colorado Guide Meridian, through Ts. 28 S., bet. Rs. 25 and 26 E., the survey of the west Bdy., the retracement of the N. and S. bdrs., and the resurvey and survey of subdivisions of T. 28 S., R. 25 E., S.L.B. & M.,

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thomas C. Rathbone
U. S. Surveyor

Subscribed by said Thomas C. Rathbone and sworn to before me }
this 14th day of March, 1916



A. C. Prosser
U. S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Aug. 17, 1916

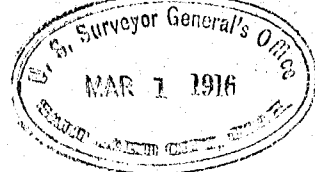
The foregoing field notes of the ^{re}survey of the Colorado Guide Meridian through Ts. 28 S. bet. Rs. 25 and 26 E., the survey of the west bdy., the retracement and resurvey of the N. and S. bdrs., and the resurvey and survey of the subdivisions of T. 28 S. R. 25 E.

executed by Thomas C. Rathbone under his special instructions dated July 20, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A. C. Prosser
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in T. 28 S. R. 25 E. S.L.B. & M. Utah, has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.



BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE
WEST BOUNDARY

of

T. 28 S., R. 25 E.

Of the Salt Lake Base, and Meridian,
Utah

In the State of

EXECUTED BY

THOMAS C. RATHBONE,

U.S. Transitman

In the capacity of ~~U.S. Surveyor~~, under instructions dated May 6, 1914, 191

issued by the United States Surveyor General to govern surveys included in
Group No. 42, which were approved by the Commissioner of the General Land

Office, , 191

Survey commenced Sept. 8, , 1915

Survey completed Sept. 9, , 191⁵

BOOK A-418

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

WEST BOUNDARYofT. 28 S., R. 25 E.,Of the SALT LAKE BASE AND Meridian,In the State of UTAH

EXECUTED BY

THOMAS C. RATHBONE

In the capacity of U. S. TRANSITMAN ~~Surveyor~~, under instructions dated July 20,, 1915,
 issued by the United States Surveyor General to govern surveys included in
 Group No. 42 Utah, which were approved by the Commissioner of the General Land
 Office, September 25, 1915

Survey commenced September 8,, 1915Survey completed September 9,, 1915

BOOK A 418

INDEX DIAGRAM.

Township 28 South, Range 25 East, of the S.L.B. & M.

6 6	5	4	3	2	1
5 7	8	9	10	11	12
3 18	17	16	15	14	13
2 19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Chains

Survey commenced Sept. 8, 1915, and executed with a Young and Son's transit, No. 7192, with solar attachment.

Note.-For description and tests of instrument, see the

field notes of the survey of the subdivisions of the Tp.

Five chain steel tapes and clinometers were used in meas-

uring all distances. The reduced horizontal distances

only appear in these field notes. The tape was frequent-

ly tested by comparing it with a standard one chain tape

kept for this purpose only.

The instruments were approved for use on this survey by

the Ass't. Supervisor of Surveys for Utah.

I know that the adjustments of my instrument are satisfac-

tory, from recent tests on a Polaris meridian.

On account of the altitude of the country, which ranges

from 6,000 to 8,000 ft. above sea level, I apply a coef-

ficient of 0.77 to the mean refractions in declinations.

Sept 8; At 10^h00^m a.m., l.a.t., I set off 38°22' on the lat. arc; 5°56'N. on the decl. arc, and determine a meridian with the solar at the old cor. of secs. 19, 24, 25 and 30, on the W. Bdy. of the Tp., which is a gray sandstone, 10 x 9 x 6-ins. above ground, firmly set and marked as described by the Surveyor General, but not witnessed. I therefore raise a mound of stone, 2 ft. base, 1½ ft. high west of the cor.

Thence I run

North, on random line, bet. secs. 19 and 24, setting tem-

porary points at intervals of 40.00 chs.

80.00

Sept 8: At this point I set off 5°54½'N. on the decl. arc, and at 12^h00^m noon l.a.t., observe the sun on the meridian; the resulting lat. is 38°22½'.

160.00

Set temporary point for the cor. of secs. 7, 12, 13 and 18.

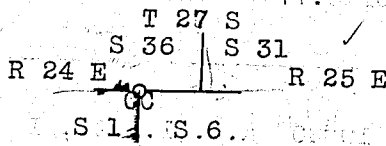
Sept. 8, 1915.

Sept. 9: At 8^h00^m a.m., l.a.t., I set off 38°23' on the lat.

West Boundary of T.28 S., R.25 E.

Chains

arc; $5^{\circ}36'N.$ on the decl. arc, and determine a meridian with the solar at the temporary point for cor. of secs. 7, 12, 13 and 18. Thence I continue North, on random line, bet. secs 7 and 12. 326.59 Intersect E. and W. line at 19.40 chs. W. of the old cor. of Ts. 27 and 28 S., Rs. 24 and 25 E., which is a limestone, $18 \times 8 \times 7$ ins., resembling a granite, lying loose on the remains of an old mound of earth and stones, marked with notches on three edges, the exact number being indefinite on account of the stone being chipped. As this falling answers to a course in excess of $21'$ of arc, I will establish my random as the true line, and at the intersection, I set an iron post, 3 ft. long, 3 ins. diam., 24 ins. into the ground, for closing cor. of Ts. 28 S., Rs. 24 and 25 E., with brass cap marked



and raise a mound of stone, 3 ft. base, 2 ft. high, S. of the cor. I destroy all marks on the cor. of Ts. 27 and 28 S., Rs. 24 and 25 E., that pertain to Ts. 28 S., Rs. 24 and 25 east, reset same 10 ins. in the ground, and remark stone with six notches on the N., E. and W., edges for the cor. of Tp. 27 S., Rs. 24 and 25 E., and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of the cor. The SW. corner post of a wire fence enclosure stands 2 lks. N. of this cor. Sept. 9: At this point I set off $5^{\circ}32'N.$ on the decl. arc, and at 12^{h00m} noon l.a.t., observe the sun on the meridian; the resulting lat. is $38^{\circ}25'$. From the cor. of secs. 19, 24, 25 and 30, on the W. Bdy.,

Chains

of the Tp., I run

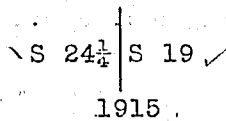
North, on true line, bet. secs. 19 and 24

Over rolling mountainous land, on the SE. slope of the La Sal Mts.^b, desc. gradually through sage and oak brush.

15.00 Draw, 25 ft. below the cor., Drains S.20°E. Asc.

21.54 Irrigation canal, 10 lks. wide, 10 ins. deep, course W., owned by the La Sal Live Stock Co. A small bridge across the canal bears E., 100 lks. dist.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. into the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

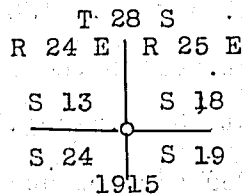


raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor,

Cor. stands on SE. slope, 110 ft. above the draw.

69.00 Small gulch in SE. Slope of Mtn.; 20 lks. wide, 10 ft. deep. draining SE.. Continue asc.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. into the ground, for the cor. of secs. 13, 18, 19 and 24, with brass cap marked



and raise a mound of stone, 3 ft. base, 2 ft. high, W. of the cor.

Cor. stands on the SE. slope of the mountains, 80 ft. above the $\frac{1}{4}$ sec. cor.

Land, rolling mountainous, sloping SE. from the main mts. Soil, stony, rocky sandy loam, on rocky subsoil, 4th. rate. Undergrowth of sage and oakbrush, and good grass for grazing on the mile.

No timber.

North, bet. secs. 13 and 18.

West Boundary of T.28 S., R.25 E.

Chains

Over mountainous land, asc. through sage and oakbrush.

18.00 Top of asc., spur of mountain projects W., 75 ft. above the sec. cor., Desc.

23.88 Fork of Deer Cr., 10 lks. wide, 4 ins. deep, course east, good water, creek is diverted into the La Sal Live Stock Co's. irrigation canal about 50 chs. SE. of here. Creek is 66 ft. below spur. Asc. up draw, through elder timber.

38.27 N. Fork of Deer Cr., 2 lks. wide, 2 ins. deep, course S. 10° E., joins the main fork about 20 chs. SE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $13\frac{1}{4}$ S 18 ✓

1915

from which

An elder, 5 ins. diam., bears S. $10\frac{1}{2}^{\circ}$ E., 38 lks.

dist., marked $\frac{1}{4}$ S 18 BT

An elder, 9 ins. diam., bears S. 3° W., 24 lks.

dist., marked $\frac{1}{4}$ S 13 BT.

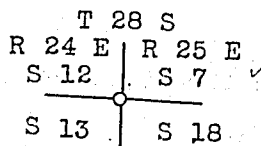
Continue up bottom of draw, leave elder timber.

59.00 Asc. from draw to ridge, bears NW. and SE.

65.00 Ridge, bears NW. and SE., 130 ft. above the draw. Desc.

66.90 Dry gulch, 80 ft. below the ridge, drains SE. Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 24 ins. into the ground, for cor. of secs. 7, 12, 13 and 18, with brass cap marked



1915

raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of the cor.

Cor. stands on S. slope, 135 ft. above the gulch.

Land, mountainous, general east drainage and slope.

Soil, rocky gravelly loam, on quartz and lime subsoil, 4th. rate.

Chains Undergrowth, sage and oakbrush, and good grass for grazing.
A fringe of elder timber in bottom of draw along creek.

North; on true line, bet. secs. 7 and 12.
Over rough mountainous land, asc. abruptly to spur of mtn. through sage and oak brush undergrowth, over quartzite sliderock.

9.50 Enter scattering aspen timber, bears E. and W., thence over slide rock and huge broken boulders.

15.12 Top of spur, projects S.79°W. for 15 chs., 555 ft. above the cor. Thence desc. over E. slope through dense aspen timber; leave sage and oak brush, bears E. and W., and enter scattering yellow pine timber, bears same.

26.80 Ravine, 70 ft. below spur, drains E. Asc.

36.00 Spur, 65 ft. above ravine, projects W. 15 chs. Desc.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 12 ins. into the ground to bedrock, and 12 ins. in a mound of stone 2 ft. base, for $\frac{1}{4}$ sec. cor., with brass cap marked

S 12 $\frac{1}{4}$ S 7 ✓
1915

from which

An aspen, 6 ins. diam., bears N.27°E., 20 lks. dist.
marked $\frac{1}{4}$ S 7 BT

An aspen, 5 ins. diam., bears N.67 $\frac{1}{2}$ °W., 15 lks.
dist., marked $\frac{1}{4}$ S 12 BT

Cor. stands on E. slope, 25 ft. below the spur.

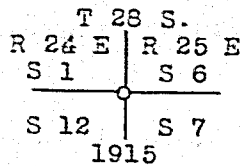
70.20 Ravine, 110 ft. below spur, drains NE. Asc.

77.00 Spur, 80 ft. above the ravine, projects N.70°E. Desc.

80.00 Set an iron post, 3 ft. long, 3 ins. diam., 18 ins. into the ground and 6 ins. in a mound of stone, 2 ft. base, for cor. of secs. 1,6,7 and 12, with brass cap marked

Test Boundary of T.28 S., R.25 E.

Chains



from which,

An aspen, 6 ins. diam., bears N.23°E., 23 lks. dist.
marked T. 28 S R 25 E S 6 BT

An aspen, 4 ins. diam., bears S.46°E., 30 lks.
dist., marked T.28 S R 25 E S 7 BT

An aspen, 5 ins. diam., bears S.62½°W., 15 lks.
dist., marked T 28 S R 24 E S 12 BT

An aspen, 5 ins. diam., bears N.52°W., 10 lks.
dist., marked T.28 S R 24 E S 1 BT

Cor. stands on the NW face of spur, 70 ft. below top.

Land, mountainous, steep N. and S. slopes, general easterly
drainage.

Soil, rocky, gravelly loam, on rocky sub-soil, 4th. rate.

Timber, aspen and yellow pine,

Undergrowth, oak and sagebrush, and good grass for gra-
zing.

North , on true line, bet. secs. 1 and 6

Over rough mountainous land, desc. rapidly through dense
aspen timber, and scattering sarvice undergrowthh.

6.70 Small spring branch, 2 lks. wide, 4 ins. deep, course E.,
good water, heads in small spring 10 lks. W. of line.

8.60 La Sal Cr., 14 lks wide, 6 ins. deep, course S.60°E., good
water, in bottom of ravine, bears NW. and SE., 215 ft.
below the cor. Asc. rapidly.

21.00 Leave aspen and scattering yellow pine timber, bears NW.
and SE., and enter more dense sarvice and oak brush.

24.00 Asc. more abruptly, bears NW. and SE.

29.00 Top of abrupt asc. bears NW. and SE., thence over more
gradual asc., and enter scattered clumps of aspen timber,
bears E. and W.

36.60 Road, from Old La Sal to La Sal Pass, bears N.35°W. and

West Boundary of T.28 S., R.25 E.

Chains

S.35°E.

40.00 Set an iron post, 3 ft. long, 1 in. diam., 24 ins. into the ground, for $\frac{1}{4}$ sec. cor., with brass cap marked

S $1\frac{1}{4}$ | S 6 ✓
1915

from which

An aspen, 8 ins. diam., bears S.88°E., 21 lks.
dist. marked $\frac{1}{4}$ S 6 BT

An aspen, 7 ins. diam., bears N.3 $\frac{1}{4}$ °W., 191 lks.
dist., marked $\frac{1}{4}$ S 1 BT

Cor. stands on land sloping S., 330 ft. above La Sal Cr.

42.00 Enter more dense aspen timber, bears E. and W.

55.50 Road, same as before noted, from Old La Sal to La Sal Pass
bears N.20°E. and S.20°W.

58.60 Leave aspen timber, bears E. and W.

64.60 Wire fence, drift fence for cattle, bears N.20°E. and S.
20°W.

67.90 The SW. corner of a cattle corral bears E., 2 chs. dist.
Also, same road, bears E. and W.

73.00 Asc. gradually over grassy slope, bears E. and W.

86.59 The Closing cor. of Tp. 28 S., Rs. 24 and 25 E., 95 ft.
above the $\frac{1}{4}$ sec. cor.

Land, rolling and rough mountainous, with general SE.
drainage into La Sal Cr.

Soil, on S. half, rocky gravelly loam on quartz and lime
stone sub-soil, 4th. rate; on the N. half, gravelly
and sandy black loam, moist, on stony sub-soil, 2nd.
rate.

Timber, aspen and scattering yellow pine.

Undergrowth, oak and sarvice brush, and good grass for
grazing.

Sept. 9, 1915.

Thos. C. Rathbone
U. S. Transitman,

See book of the subdivisions of T. 28 S., R. 25 E., for
Oath of Ass'ts and final oath.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
_____, U. S. Surveyor, during the periods and in the capacities
_____ ed opposite our several signatures, in surveying all those parts or portions of _____

For certificate of assistants see book "A"

of the Meridian, in the State of
which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

[illegible]

Subscribed and certified to before me on the dates of the final service as shown above.

U. S. Surveyor.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191____, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of U.S. Surveyor see book "A"

_____ of the _____ Meridian, in the State of _____, which are represented the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special-written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, August 17____, 191____ 6

The foregoing field notes of the survey of _____ the West Boundary of Tp. 28 S. R. 25 E. of the Salt Lake Base and Meridian,

executed by _____ Thomas C. Rathbone
under his special instructions dated _____ July 20____, 1915____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

[Signature]
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

Blank

Page

Blank

Page

Blank

Page

Blank

Page

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY

RETRACEMENT NORTH BOUNDARY

RETRACEMENT AND RESURVEY UTAH COLORADO BOUNDARY

AND

SURVEY OF SUBDIVISIONS

OF

T. 28 S. R. 26 E.

Of the Salt Lake Base and Meridian,

in the State of Utah

EXECUTED BY

Thomas Rathbone

in the capacity of U. S. Surveyor..., under instructions dated July 20, 1915,
issued by the United States Surveyor General to govern surveys included in
Group No. 42, which were approved by the Commissioner of the General Land
Office, September 25, 1915, pursuant to authority contained in the Act of
Congress dated , 191....

Survey commenced October 13, 1915

Survey completed November 3, 1915

BOOK A-418

INDEX DIAGRAM.

Township 25 South, Range 26 East

6	35	5	54	12	3	2	1
32		52	53	4			
7	30	8	50	11	10	11	12
29		28	49	9			
18	27	17	46	10	15	14	13
26		44	45	16			
10	24	20	42	9	22	23	24
23		40	41	21			
30	21	29	35	8	27	26	25
19		36	38	22			
31	17	32	35	6	34	35	36
2		3	5	7			

SOUTH BOUNDARY T. 28 S. R. 26 E.

Survey commenced October 13, 1915, and executed with a Young & Sons light mountain transit No. 7192. The horizontal limb is provided with two opposite verniers reading 1' of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct, and was approved by the Assistant Supervisor of Surveys conditional upon satisfactory field test.

I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

Oct. 23: At my camp in the NE. part of Sec. 18, T. 28 S. R. 26 E. latitude $38^{\circ}23'N.$, longitude $109^{\circ}07'W.$, at 4h p.m. apparent time, I set off $11^{\circ}15'S.$ on the decl. arc, $38^{\circ}22'N.$ on the lat. arc, and determine a meridian with the solar which falls on a crack in a ledge about $2\frac{1}{2}$ or 3 miles distant.

At 5h 30m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and note that this line bisects a small tree on a sky line on the same ledge $2\frac{1}{2}$ miles dist.

At 5h 35m p.m., l.m.t., I turn off the azimuth of Polaris $1^{\circ}27'$ to the west and this line precisely hits the crack in ledge.

Oct. 24: At 6h a.m. apparent time I set off $38^{\circ}23'$ on the lat. arc, $11^{\circ}29'S.$ on the decl. arc, and determine a meridian with the solar which coincides with crack in ledge.

At apparent noon I set off $11^{\circ}34'S.$ on the decl. arc, $38^{\circ}23'$ on the lat. arc, and determine a meridian with the solar, which coincides with crack in ledge.

The magnetic bearing of the true meridian at 5h 30m p.m. is $N. 15^{\circ}55'W.$, the angle thus determined gives the mag. decl. $15^{\circ}55'E.$

SOUTH BOUNDARY T. 28 S. R. 26 E.

Chains

Oct. 13: At 8h.14m. apparent time, I set off $35^{\circ}20'$ on the lat. arc, $7^{\circ}29'30''$ S. on the decl. arc, and determine a meridian with the solar at the old cor. for Tps. 28 and 29 S. R. 25 E. and 26 E. described in South Boundary T. 28 S. R. 25 E. East bet. secs. 6 and 31.

Descending over rough broken mesa land with boulders, through cedar and pinon pine timber and undergrowth of buck brush and dense sarvice berry brush.

.64 Gulch drains S. 45° E., 15 ft. below cor.

3.50 Spur projects S. 40° E., 150 chs. 5 ft. above cor. Huge boulder on line.

Thence descend to side canyon.

11.35 Bottom of canyon 155 ft. below spur, drains N. 60° E. Ascend.

16.25 Top of spur of mesa, projecting N. 2 chs.; 130 ft. above canyon bottom.

22.80 Leave level mesa spur; thence along uneven edge of mesa.

28.70 Descend abruptly into deep gulch bearing N. and S.

32.30 Gulch draining N. 95 ft. below top descent. Mesa breaks off abruptly 3 to 6 chs. N., thence slopes into LaSal Canyon. Ascend.

38.41 Top of spur of mesa bearing N. and S. 105 ft. above gulch.

40.00 Set an iron post 3 ft. long, 1 in. in dia., on sandrock surface with mound of stone around post for the $\frac{1}{4}$ sec. cor., mkd. on brass cap

$$\begin{array}{r} S. 31 \\ \hline \frac{1}{4} \\ \hline S. 6 \\ 1915 \end{array}$$

from which

A cedar, 16 ins. dia., brs. S. 36° E.,

13 lks. dist. mkd. $\frac{1}{4}$ S 6 B T.

A pinon pine 7 ins. dia., brs. N. 13° W.,

13 lks. dist. mkd. $\frac{1}{4}$ S 31 B T.

Corner falls on spur of mesa where it is impossible to set post in the ground.

SOUTH BOUNDARY T. 28 S. R. 26 E.

Chains

Continue descending into canyon through heavy cedars and pinon pine.

54.50 Side canyon draining N. 150 ft. below cor.

59.00 Top of ledge 12 ft. high brs. N. and S.

Continue ascent.

67.50 Huge broken boulders bearing N. and S.

68.00 Top of ascent or mesa spur, 197 ft. above canyon.

Thence through dense pinon pine and cedar timber.

80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for the cor. of secs. 5, 6, 31 and 32, mkd. on brass cap

T 28 S	
S 31	S 32
R 26 E	
S 6	S 5
T 29 S	
1915	

from which

Pinon pine 5 ins. dia., brs. N. 57° E.,

49 lks. dist. mkd. T 28 S R 26 E S 32 B T.

Pinon pine 12 ins. dia., brs. S. 11° E.,

87 lks. dist. mkd. T 29 S R 26 E S 5 B T.

Cedar 8 ins. dia., brs. S. 48° W.,

80 lks. dist. mkd. T 29 S R 26 E S 6 B T.

Pinon pine 6 ins. dia., brs. N. 62° W.,

45 lks. dist. mkd. T 28 S R 26 E S 31 B T.

Corner falls on mesa in cedar and pinon pine timber.

Oct. 13: At this cor. I set off 7°34'S. on the decl.

arc, and at apparent noon determine a meridian with the solar; the resulting lat. is 38°20'.

Land rough and broken mesa sloping N., cut by rocky gulches and canyon.

Soil rocky, sandstone rock, shallow, 4th rate.

Timber cedar and pinon pine.

Undergrowth sarvice berry brush.

East bet. secs. 5 and 32.

Over mesa, through dense pinon pine and cedar timber and

SOUTH BOUNDARY T. 28 S. R. 26 E.

Chains

undergrowth of oak brush.

5.00 Descend gradually.

9.50 Descend abruptly N. 70°W. and S. 60°E., over broken ledges and huge boulders, from mesa into LaSal Creek Canyon.

15.92 Left flag on huge boulder.

Note: This flag is used in several triangulations.

19.50 Descend abruptly bearing S. 30°E. and N. 30°W.

23.00 Foot of steep descent bearing NW. and SE. 325 ft. below top of mesa.

27.00 Old trail bearing NW. and SE.

35.20 Gulch draining N. 15°E. 465 ft. below mesa. Ascend.

37.50 Top of bench, 35 ft. above gulch, brs. N. Thence over uneven ground covered with boulders, through cedar and pinon pine timber.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

S 32

$\frac{1}{4}$

S 5
1915

from which

Pinon pine 6 ins. dia., brs. S. 13°W.,

32 lks. dist. mkd. $\frac{1}{4}$ S 5 B T.

Pinon pine 8 ins. dia., brs. N. 13°W.,

19 lks. dist. mkd. $\frac{1}{4}$ S 32 B T.

Corner falls on bench land draining N. 35 ft. above gulch, in cedar and pinon pine timber.

Continue over uneven bench land sloping N., through cedar and pinon timber, into LaSal Canyon.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for the cor. secs. 4, 5, 32 and 33, mkd. on brass cap

T 28 S

S 32 S 33

R 26 E

S 5 S 4

T 29 S

1915

Corner falls on slope facing N. in oak brush undergrowth and south of sagebrush opening, 75 ft. below $\frac{1}{4}$ cor. from which

SOUTH BOUNDARY T. 28 S. R. 26 E.

Chains

Cedar 10 ins. dia., brs. N.69°E.,
 136 lks. dist. mkd. T 28 S R 26 E S 33 B T.
 Pinon pine 8 ins. dia., brs. S.23°E.,
 1.78 lks. dist. mkd. T 29 S R 26 E S 4 B T.
 Pinon pine 5 ins. dia., brs. S.56°W.,
 44 lks. dist. mkd. T 29 S R 26 E S 5 B T.
 Pinon pine 5 ins. dia., brs. N.56°W.,
 147 lks. dist. mkd. T 28 S R 26 E S 32 B T.

Land rough bench, mountainous, sloping N. into LaSal Canyon.
 Soil stony, sandstone loam, generally shallow, 4th rate.
 Timber cedar and pinon pine.
 Undergrowth sagebrush and dense sarvice berry brush.

October 13, 1915.

Oct. 15: At 8h a.m. apparent time, I set off 38°20' on the lat. arc, 8°14'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33.

East bet. secs. 4 and 33.

Over uneven bench land through dense undergrowth.

5.00 Sagebrush opening about $\frac{1}{4}$ acre in area.

32.60 Trail in gulch draining N.20°E.

34.00 Ascend.

39.70 Fall 8 lks. south of triangular sandstone 30x20x $\frac{1}{4}$ ft. loosely set in stone marked "C" 1885 on E. face and "U" 91 M on W. face. Reset same in mound of stone 3 ft. base, 1 ft. high.

From the 91 M C I run due south and at 8.23 chs. intersect old post signal in mound of stone still standing, and returned in old notes as 9.00 chs. south. Thus the boundary bears South between the signal and the 91 M C. Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground 8 lks. S. of same for CC secs. 4 and 33, mkd. on

brass cap

T 28 S		
R 26 E		
S 33 C	91 M	
S 4 C		
T 29 S		
U C		
1915		

Chains

from which

Pinon pine 7 ins. dia., brs. S. $63^{\circ}30'W.$,

88 lks. dist. mkd. T 29 S R 26 E S 4 B T.

Pine 14 ins. dia., brs. N. $80^{\circ}15'W.$,

1.18 lks. dist. mkd. T 28 S R 26 E S 33 B T.

Corner falls on slope facing N. in cedar and pinon pine timber.

Oct. 15: Not on line at apparent noon; observation for lat. impossible.

October 15, 1915.

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

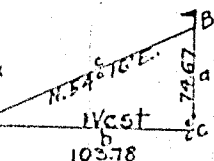
Oct. 16: At 8h 30m a.m. apparent time, I set off $38^{\circ}20'$ on the lat. arc, $8^{\circ}37'S.$ on the decl. arc, and determine a meridian with the solar at the 91 M post on the Utah Colorado Boundary Line.

Thence

North on random retracement line bet. 91 and 92 M C post on Utah Colorado Boundary Line.

35.32 On account of ledges descending into LaSal Creek, I am unable to chain farther.

Set a flag to the north and measure a base W. 103.78 chs. to the same signal set at 15.92 chs. E. of cor. of secs. 5, 6, 31 and 32. From W. end of base the flag bears N. $54^{\circ}16'E.$ and from flag the W. end of base bears S. $54^{\circ}16'W.$ Therefore distance across ledges is:



$$\begin{aligned}
 a &= b \times \tan. A \\
 \log. b &= 2.016114 \\
 \log. \tan. A &= 9.857004 \\
 \log. a &= 1.873118
 \end{aligned}$$

$$a = 74.67$$

Therefore the distance up to the triangulation point on Utah Colorado Boundary is 74.67 chs. and from 91 M to Tp. is $74.67 - 8 = 74.59$ chs., and the vertical distance from this point to bottom of canyon is equal to 10.90 chs.

Thence continue north on random line and at

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

Chains	
80.00	No trace of the 92nd M C can be found. Set temporary corner.
	Oct. 16: At this point at apparent noon I set off $8^{\circ}41'S$. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $38^{\circ}21'$.
	Oct. 16: From the 92nd M C, I continue north on random retracement line.
14.30	Unsurveyable canyon... To determine distance across I proceed as follows: Set a flag on north side of canyon on high rim and measure a base line 103.78 chs. W. to a point from which flag across canyon bears $N.31^{\circ}54'E$. From the flag on opposite side the W. end of base bears $S.31^{\circ}54'W$. Therefore the distance is $\cot. 31^{\circ}54' \times \text{base}$ or $1.60657 \times 103.78 = 166.73$. The distance of the CC to the 91 M P is .08. $166.73 - .08 = 166.65$ chs. to point of triangulation.
87.82	Fall 25 lks. E. of WC 93 MC, which is sandstone $18 \times 4 \times 20$ ins. in mound of stone, marked as described by the Surveyor General.
	Therefore
	Course of the line between the 91 and 93 M C is $N.0^{\circ}05'W$. and the length of the miles 79.91 chs.
	Oct. 21: At 8h 30m a.m. apparent time, I set off $38^{\circ}20'$ on the lat. arc, $10^{\circ}26'S$. on the decl. arc, and determine a meridian with the solar at the 91 M C. Thence $N.0^{\circ}05'W$. on resurvey line bet. 91 and 92 M P. Descending gradually from bench land through cedar and pinon pine timber to deep canyon in which LaSal Creek flows north.
5.00	Descend more rapidly over broken boulders through cedar and pinon timber.
8.10	Trail bears E. and W.
35.32	Point for triangulation.

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

Chains	
	Thence descend from point over huge broken boulders, through cedar and pinon pine timber.
52.00	LaSal Creek, 20 lks. wide, 2 ft. deep, flows E. 14.72 chs. below cor.
52.15	Road LaSal to Paradox, the "Rainbow Route", bears E. and W. (proposed route)
52.20	Telephone line bears with road.
52.50	Vertical sandstone wall. Chiseled a line on rock ledge on N. side of LaSal Canyon bottom, "U" on W. and "C" on E. in prominent view of road. Waterfall is 25 lks. to the East.
74.59	Top of ledges 720 ft. above creek, bears E. and W. Thence over rough bench.
79.91	Proportionate distance for 92 M C. Cor. falls on bedrock sandstone exposed 3 ft. above ground. Chiseled a cross (X) at point and also chiseled as follows:
	<div style="text-align: center;"> 1915 U | C 92 MP </div>
	and built a large mound of rock 3 ft. base, 2 ft. high N. of point; the only place available.
	<u>Land extremely rough and mountainous, with series of vertical ledges almost impossible to scale.</u>
	Soil sandstone and rocky, 4th rate.
	Timber cedar and pinon pine.
	Oct. 21: For noon lat. see line bet. secs. 28 and 33. N. 0°05'W. resurveying from 92 to 93 M P.
	Ascending over broken boulders through cedar and pinon pine timber to top of spur.
2.30	Spur projects E. about 7 chs., 40 lks. above cor. Same breaks off abruptly into deep canyon with a succession of broken ledges from top to bottom.
5.83	Gulch drains E. 50 lks. below spur.
10.00	Top of ascent which is on E. face or slope of spur bearing E. and W. Thence descend along slope facing NE. into

RETRACEMENT AND
RESURVEY UTAH COLORADO BOUNDARY

Chains	deep impassible canyon.
14.30	Point for triangulation.
19.50	S. rim of Lion Canyon bears NW. and SE.
31.00	N. rim of Lion Canyon bears E. and W., about 100 ft. deep.
79.91	Proportionate distance for 93 M C. Point falls on ground where it is impracticable to restore the cor. Set temporary point.
87.91	The old WC to the 93 MC, heretofore described. Land extremely rough and mountainous with canyons draining SE. Soil sandrock, rocky, 4th rate. Cedar and pinon pine timber. Undergrowth of sarvice berry.
	October 21, 1915.
	Oct. 25: At 8h a.m. apparent time, I set off $38^{\circ}22'$ on the lat. arc, $11^{\circ}50'S$. on the decl. arc, and determine a meridian with the solar at the WC 93 MC, 8 chs. N. of the true point for said corner. Thence North bet. 93 and 94 M P, counting the distance from the true corner point. Descending gradually along slope facing W. over rough broken boulders and broken ledges, through cedar and pinon pine timber.
13.00	Side gulch draining W. 35 ft. below WC., empties into main gulch 1 ch. W. Thence ascend slope facing SW. From this point main gulch bears NW.
23.80	Top of mesa brs. $S.20^{\circ}E$. and $N.20^{\circ}W$. 175 ft. above gulch. Thence ascend gradually over mesa through dense cedar and pinon pine timber.
30.47	Fall 27 lks. west of a pinon pine, 10 ins. dia., mkd.

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

Chains

"Col" on E. face "94 MP" on S. face, "UTAH" on W. face and "1878" on N. face, old survey.

40.00 Descend gradually through scattering yellow pine timber.

53.70 Bottom of gulch draining S. 40° E., 95 ft. below top of descent.

Leave dense cedar and pinon pine timber and enter yellow pine timber.

74.50 Wash draining SW.

80.15 Fall 40 lks. W. of 94 M P, which is broken sandstone 14x13x2 ins. lying loose on ground mkd. "C 1885" on one face and "U 94M" on other, from which

Pinon pine 9 ins. dia., brs. S. 40° E.,

16 lks. dist. mkd. C 94 M on E.

Pinon pine 9 ins. dia., brs. N. 53° W.,

20 lks. dist. mkd. U 94 M.

Corner falls 165 ft. above gulch.

The course of this line is therefore N. $0^{\circ}19'$ E. and the distance 80.15 chs.

Land mountainous with mesa sloping SW.

Soil stony, sandy and shallow, 4th rate.

Timber cedar and pinon pine.

Oct. 25: At this cor. I set off $11^{\circ}54'30''$ S. on the decl. arc, and at apparent noon observe the sun on the meridian; the resulting lat. is $38^{\circ}22'30''$.

North bet. 94 and 95 M P.

Ascending gradually over mesa through cedar, yellow pine and pinon pine timber.

14.60 Descend from mesa along east side of valley into valley bearing S. 45° W. and N. 15° E. 145 ft. above 94 M P.

19.00 Old monument.

23.50 Broken ledges bearing N. 20° E. and S. 20° W.

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

Chains

35.00 Foot of descent. Thence ascend gradually along east side of valley.

38.00 Enter sagebrush opening.

47.00 Leave sagebrush, enter pinon pine, cedar and scattering yellow pine timber and oak brush undergrowth.

Begin ascent out of valley.

61.50 Ascend abruptly over broken ledges bearing N.45°W. and S.15°E.

64.70 Top of abrupt ascent. Thence ascend gradually over mesa.

65.00 Five chs. west to E. and W. line of fence, which abuts up against ledges at this point.

69.70 Enter scattering buck brush undergrowth and yellow pine timber.

75.43 Trail bears S.50°W. and N.50°E.

75.82 Wagner's house on Lion Creek brs. S.75°W.

80.32 Fall 9 lks. W. of 95 M P. which is a sandstone 18x10x5 ins. in mound of stone mkd. "C" on E. face "1885" on N. face and "U" 95 M on W. face. Reset same in mound of stone 2 ft. base, 1 ft. high.

The course of this line is therefore N.0°04'E. and the distance 80.32 chs.

Land mountainous with rocky west rim of mesa.

Soil shallow stony sandstone loam, 4th rate.

Timber cedar, pinon pine and yellow pine.

Undergrowth buck brush.

October 25, 1915.

Oct. 26: At 8h a.m. apparent time, I set off 38°23' on the lat. arc, 12°11'S! on the decl. arc, and determine a meridian with the solar at the 95 M P.

Thence North bet. 95 and 96 M P.

Ascending gradually on top of ridge, 10 chs. wide, through yellow pine timber and sarvice berry and oak brush undergrowth.

19.20 Paradox Trail bears N.45°E. and S.45°W.

RETRACEMENT AND RESURVEY UTAH COLORADO BOUNDARY

Chains

19.40 Line tree 25 ins. in dia.

Tree is post sign of Forest Service Location Poster.

20.00 Patches of manzanita.

24.99 Ridge bears N.15°E. and forms into broken ledges of mesa.
Ascend W. slope of same; about 15 chs. W. Lion Canyon
breaks off into E. and W. forks.

55.88 Descend from broken ledges bearing N.10°E. and S.10°W.
into E. fork of Lion Canyon, 155 ft. above 95 M P.

65.56 Foot of steep descent, canyon bottom.

Ascend gradually over State Line Draw on E. bench of E.
fork of Lion Canyon.

76.26 Road bears S.6°W. and N. along line meandering back and
forth across line.

80.46 Fall 6 lks. E. of old 96 M S, which is sandstone 10x9x5
ins. marked "U" 96 M on W. "1885" on N. "C" on E.
Corner falls 10 ft. below ledge.

The course of this line is therefore N.0°03'W. and the
distance 80.46 chs.

Land mountainous, mesa and mesa rim draining W.

Soil rocky, sandy shallow loam on sandstone subsoil,
with rate.

Timber yellow pine.

Undergrowth service berry, oak brush, manzanita and
scattering sagebrush.

North bet. 96 and 97 M P.

Ascending E. bench of canyon through yellow pine timber
and undergrowth of oak and scattering sagebrush.

15.00 Leave road bearing N.45°E. and S.45°W. Ascend to low
point on divide.

25.47 Intersect CC, which is a sandstone 36x12x5 ins. mhd. 2
notches on S. 4 notches on N. and CC on W., 98 ft.
above 96 M P.

35.29 Top of divide bet. Paradox and LaSal Canyons, brs. NW. and
SE. Trail on ridge brs. NW. and SE. 33 ft. above CC.
E. head of E. fork of Lion Canyon bears S. 1 ch. W.

RETRACEMENT AND

RESURVEY UTAH COLORADO BOUNDARY

Chains

40.76 Return to road bearing N.6°W. and S.6°E.
Descend gradually N. slope.

42.46 Pine tree 24 ins. dia., on line.

60.75 Road meanders back and forth across line.

80.55 Fall 13 lks. E. of 97 M P, which is sandstone 21x16x5 ins. lying loose on ground, marked "C" on E. "1885" on N. "U" 97 M on W. Reset same in mound of stone 2 ft. base 1 ft. high with old markings; 235 ft. below divide. The course of this line is therefore N.0°06'W., and the distance 80.55 chs. Land mountainous, sloping N. and S. from divide between Paradox and LaSal Canyons. Soil loose, red, sandy stony loam, shallow, on sandy bedrock, 3rd rate. Undergrowth oak and sage brush. Oct. 26: Not on line at noon, observation for lat. impossible.

North bet. 97 and 98 M P.
Descending NW. slope.

11.89 Intersect red sandstone broken in several pieces that may be CO for Tps. 27 and 28 S. with marks obliterated. Dead tree near appears to have been scribed, but is illegible. Will wait for more evidence when N. bdy. is run.

24.01 Old Colorado closing corner is 32 lks. E. of line.

49.40 Gulch 191 ft. below MC draining NE.

63.00 Spur projects 10 chs. E. 26 ft. above gulch.

79.50 Canyon 199 ft. below spur, drains SE.; ledgy sides.

80.00 Point for cor. falls on rocks; cor. not set.

84.61 Fall 10 lks. E. of old WC 98 MC, which is a sandstone 20x15x15 ins. above ground in mound of stone marked "U" on W. "C" on E. "1885" on N. "98 M WC" on S. The course of this line is therefore N.0°04'W., and the distance 84.61 chs.

NORTH BOUNDARY T. 28 S. R. 26 E.

Chains

Land mountainous sloping SE. and E.
Soil sandy, stony and rocky loam, 3rd and 4th rate.
Timber cedar and scattering yellow pine.
Undergrowth oak brush and scattering sagebrush.

October 26, 1915.

Oct. 27: At 8h a.m. apparent time, I set off $38^{\circ}25'$ on the lat. arc, $12^{\circ}31'30''$ S. on the decl. arc, and determine a meridian with the solar at the cor. of Tps. 27 and 28 S. Rs. 25 and 26 E., which is a gray sandstone $8 \times 8 \times 8$ ins. above ground marked 6 grooves on all four faces, firmly set under smooth five wire fence bearing E. and W.

Re-establish cor. by setting iron post 3 ft. long, 3 ins. in dia., 24 ins. in ground, for cor. secs. 31 and 36, mkd. on

brass cap

T 27 S	
R 25 E	R 26 E
S 36	S 31

1915

with mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. The topography going W. from this cor. to CC is broken ledges bearing $S. 40^{\circ} E.$ and $N. 40^{\circ} W.$ 2.30 chs. of which is 52 ft. above cor. Thence ascend to CC which is 3 ft. above this cor.

Thence from re-established cor. $N. 89^{\circ} 37' E.$ on random line bet. secs. 6 and 31, following along fence.

Descending through oak and buck brush undergrowth along fence.

17.50 Spring branch 3 lks. wide, draining SE. into Hop Creek.

28.03 East fork of Hop Creek drains $S. 15^{\circ} E.$ 20 lks. wide, 270 ft. below cor. Thence ascend through oak brush undergrowth.

36.00 Fall 10 lks. N. of old $\frac{1}{4}$ sec. cor., which is a sandstone $10 \times 8 \times 3$ ins. above ground, lying loose under fence, marked $\frac{1}{4}$

Corner falls 42 ft. above creek. Re-set same firmly in mound of stone with $\frac{1}{4}$ to N.

NORTH BOUNDARY T. 28 S. R. 26 E.

Chains	<p>The course of this line is therefore N.89°46'E. and distance 38.00 chs.</p> <p>Thence continue on random line N.89°37'E. along fence.</p>
19.10	Corral gate. Corral on N. side of fence with road going through same.
40.25	<p>Fall 3 lks. S. of old cor. of secs. 5, 6, 31 and 32 at SW. cor. of fence, which is a sandstone 10x7x6 ins. above ground, surrounded with mound of stone, firmly set, marked 5 notches on E. edge and 1 notch on W. edge.</p> <p>Cor. falls 126 ft. above last. cor.</p> <p>The course of this line is therefore N.89°34'E. and the distance 40.25 chs.</p> <p>Land rolling canyon bottom draining SE.</p> <p>Soil gravelly and sandy loam in stony subsoil, 2nd and 3rd rate.</p> <p>No timber. Undergrowth oak brush, sagebrush and buck brush.</p>
	<p>N.89°37'E. on random line bet. secs. 5 and 32, following along fence.</p> <p>Ascend to mesa.</p>
2.00	Foot of broken ledges bearing S.25°E. and N.25°W.
7.00	<p>Top of broken ledges bearing S.25°E. and N.25°W. Four wire fence from NW. bears 20 lks. N.</p> <p>Thence along fence.</p>
11.50	Top of mesa. Thence over uneven mesa through yellow pine timber and oak brush undergrowth.
26.00	<p>Old fenced off trail bearing N.30°W. and S.30°E.</p> <p>151 ft. above the cor. Divide between LaSal and Paradox Canyons.</p>
26.80	<p>Descend gradually into Buckeye (Paradox) Canyon.</p> <p>Ascend to mesa.</p>
39.50	Descend abruptly from mesa over ledges bearing S.30°E. and N.30°W.
39.90	<p>Fall 15 lks. S. of old $\frac{1}{4}$ cor. which is a sandstone 14x10x4 ins. above ground in mound of stone marked $\frac{1}{4}$</p>

NORTH BOUNDARY T. 25 S. R. 26 E.

Chains

on N. face, with one bearing tree to NW.

Corner is 84 ft. below top of mesa.

The course of this line is therefore N. 89° 24' E. and the distance 39.90 chs.

Thence continue to descend abruptly on 15 lk. offset to $\frac{1}{4}$ sec. cor., over broken ledges.

Oct. 27: At this point at apparent noon I set off 12° 33' S. on the decl. arc, and determine a meridian with the solar, the resulting lat. is 38° 25'.

3.00 Foot of abrupt descent bearing S. 30° E. and N. 30° E. Thence through aspen timber.

4.00 Descend gradually leaving aspen timber and entering yellow pine timber and oak brush undergrowth.

35.80 Set point

40.09 Fall 22 lks. N. of old cor. of secs. 4, 5, 32 and 33, which is a sandstone 16x7x4 ins. in mound of stone. Two bearing trees NW. and SW. 5.27 chs. below WC.

Corner falls on slope facing NE. in yellow pine timber and oak brush undergrowth.

The course of this line is therefore N. 89° 56' E. and the distance 40.09 chs.

Land mountainous.

Soil

Timber yellow pine and aspen.

Undergrowth oak brush

N. 89° 37' E. on random line bet. secs. 4 and 33, following along fence.

Descend gradually through yellow pine timber and oak brush undergrowth.

15.90 Gulch draining N. 30° E. 136 ft. below cor.

Thence ascend along slope facing N.

23.00 Ridge bearing N. and S. 85 ft. above gulch.

Descend.

29.02 Gulch draining N. 35 ft. below ridge.

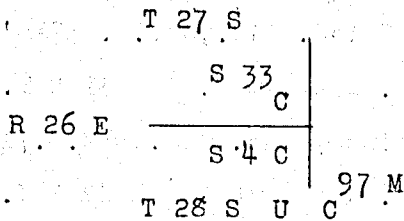
Thence ascend.

NORTH BOUNDARY T. 28 S. R. 26 E.

Chains

35.21 Fall 1 lk. S. of broken red sandstone, 11.89 chs. N.0°04' W. of the 97 M C, apparently marked but indiscernable, with dead felled trees that are in the proper location for bearing trees. I assume pieces of rock to be the old closing corner; and re-establish the closing corner of Ts. 27 and 28 S., R. 26 E. as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground by rocks for re-established closing corner of secs. 4 and 33, mkd. on brass cap



from which

Pine 22 ins. dia., brs. S.43°45'W.,

90 lks. dist. mkd. T 28 S R 26 E S 4 B T.

Pine, 20 ins. dia., brs. N.81°15'W.,

106 lks. dist. mkd. T 27 S R 26 E S 33 B T.

The true course of this line is therefore N.89°36'E., and the distance 35.21 chs.

Land rolling and mountainous, draining NE.

Soil red sandy loam 1' or more deep, 2nd rate.

Timber yellow pine.

Undergrowth oak brush.

October 27, 1915.

Oct. 18: At 8h a.m. apparent time I set off 38°20' on the lat. arc, 9°20'30"S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32 on the S. bdy. of Tp. heretofore described.

Thence

North bet. secs. 31 and 32, descending.

4.97 Edge of broken ledges bearing N.70°W. and S.75°E.

10.62 Begin rapid descent.

17.04 Foot of steep descent, 240 ft. below beginning of rapid descent.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
21.00	Trail bears E. and W. on bench, through sagebrush park. This is upper trail, 40 ft. below foot of descent.
26.08	Leave sagebrush park bearing E. and W.
35.32	Lower trail on bench, 145 ft. below upper trail.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 31 | S 32 1915 from which Cedar, 8 ins. dia., brs. S. 85° 15' W., 29 lks. dist. mkd. $\frac{1}{4}$ S 31 B T. Pinon pine 7 ins. dia., brs. S. 71° 40' E., 35 lks. dist. mkd. $\frac{1}{4}$ S 32 B T. Corner falls on N. slope of bench in thick timber, 40 ft. below lower trail.
42.07	Small draw bears NW. 25 ft. below $\frac{1}{4}$ sec. cor.
47.18	Gulch drains NW. 40 ft. below bottom of draw.
59.47	Set flag for backsight 170 ft. below bottom of gulch. Thence descend rapidly over broken ledges through cedar, pinon pine and scattering yellow pine timber and buck brush undergrowth to bottom of LaSal Creek Canyon.
60.20	Tree on point N. 60° 18' E. NW. cor. of Turk's field bears N. 14° E.
69.60	Enter bottom of gulch. Thence descend abruptly over broken ledges.
71.70	Bottom of abrupt descent. Leave cedar and pinon pine timber. Descend gradually through dense oak brush.
75.50	Road bears E. and W., LaSal to Paradox, "The Rainbow Route". (Proposed route)
77.00	Wash drains N. 30° E.
77.50	Telephone line bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for the cor. of secs. 29, 30, 31 and 32, mkd. on brass cap

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

T 28 S R 26 E	
S 30	S 29
S 31	S 32

1915

and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Corner falls on flat in bottom of LaSal Canyon in dense oak brush undergrowth.

Oct. 18: At apparent noon I set off $9^{\circ}25'S.$ on the decl. arc, and observe the sun on the meridian; the resulting lat. is $38^{\circ}21'$.

Land extremely rough and mountainous with abrupt sandstone rims, and S. side of LaSal Canyon ledges facing N.

Soil rocky on sandstone subsoil, 4th rate.

Timber cedar and pinon pine.

Undergrowth oak brush and buck brush.

West on random line bet. secs. 30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.85 Fall 10 lks. W. of the cor. of secs. 30 and 31, W. Bdy. of Tp heretofore described.

Thence

N. $89^{\circ}56'E.$ on true line bet. secs. 30 and 31.

Descending gradually over bench through dense undergrowth and cedar and pinon pine timber.

24.85 Foot of bench bearing S. $45^{\circ}W.$ and N. $45^{\circ}E.$ Continue desc.

39.92 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

S 30
 $\frac{1}{4}$

S 31
1915

from which

Red cedar 5 ins. dia., brs. N. $43^{\circ}30'E.$,

33 lks. dist. mkd. $\frac{1}{4}$ S 30 B T.

Red cedar 10 ins. dia., brs. S. $3^{\circ}45'W.$,

29 lks. dist. mkd. $\frac{1}{4}$ S 31 B T.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Corner falls 460 ft. below bench, at foot of 30 ft. ledge, bearing N. and S.

Thence descend abruptly through entanglements of dense oak and buck brush undergrowth with cedar and pinon and yellow pine timber.

44.05 LaSal Creek 12 lks. wide, 10 ins. deep, course N.10°E. Yellow pine timber along creek.

Ascend abruptly to

46.25 Top of ascent.

48.61 Spot on huge rock on line bet. secs. 28 and 29, bears N.44°53'E.

56.61 Same spot bears N.36°31'E.

62.31 Same spot bears N.29°15'E.

70.35 Leave cedar and pinon pine timber.

71.15 Gulch, 10 ft. deep, drains N.30°E.

Ascend along S. side of LaSal Creek slope, facing N., through dense buck and oak brush.

72.85 Descend abruptly through dense oak brush.

76.55 Enter creek bottom bearing S.45°E. and N.45°W.

Descend gradually through oak and buck brush undergrowth.

79.85 The cor. of secs. 29, 30, 31 and 32.

Land extremely rough and mountainous claiming S. side of sharp rocky spur between Two Mile and LaSal Canyons, with sandstone rimrock.

Soil stony with sandstone subsoil, 4th rate.

Sandy loam 1 ft. deep on bench, 2nd rate.

Timber cedar, yellow pine and pinon pine.

Undergrowth oak, buck and sarvice berry brush.

Oct. 20: At 8h a.m. apparent time, I set off 38°21' on the lat. arc, 10°4'S. on the decl. arc, and determine a meridian with the solar at the corner of secs. 29, 30, 31 and 32.

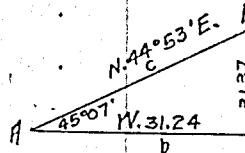
Unsurveyable land ahead. To determine distance across I proceed as follows:

SUBDIVISIONS T. 25 S. R. 26 E.

Chains

Set a flag on to the north and measure a base line west 31.24 chs. to a point from which flag ahead bears N. 44° 53' E. From the flag to the north the W. end of base line bears S. 44° 53' W. Therefore

$$\begin{aligned}\log. b &= 1.494711 \\ \log. \tan. A &= 10.001769 \\ \log. a &= 1.496480 \\ a &= 31.37\end{aligned}$$



The vertical angle from sec. cor. to point on rock is 17° 30' and vertical dist. is 653.40 ft.

Thence

North bet. secs. 29 and 30.

- 1.00 LaSal Creek 10 lks. wide, 6 ins. deep, course S. 70° E.
- 5.00 Low spur projects S. 50° E. 2 chs.
- 14.20 Two Mile Creek; 10 lks. wide, 8 ins. deep course 50 lks. E. thence S.
- 19.00 Succession of vertical cliffs.
- 26.00 Top of cliffs bear E. and W.
- 31.37 Triangulation point.
- 34.30 Spur projects S. 40° E. 5 chs. 690 ft. above the sec. cor. Huge boulders and pinon pine and cedar timber on same. Thence descend along spur.

Oct. 20, 1915.

Oct. 19, 1915:

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

$\frac{1}{4}$ S 30 | S 29

1915

from which

Pinon pine 7 ins. dia., brs. S. 65° W.,

32 lks. dist. mkd. $\frac{1}{4}$ S 30 B T.

Pinon pine 5 ins. dia., brs. N. 77° 45' E.,

32 lks. dist. mkd. $\frac{1}{4}$ S 29 B T.

Corner falls on steep side of hill facing E. with huge broken boulders, pinon pine and cedar timber and buck brush undergrowth on same; 45 ft. below top of spur. Continue descent along steep and very rough side hill slope into Hop Creek Canyon.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

- 43.90 Gulch drains S. 70° E. 45 ft. below $\frac{1}{2}$ sec. cor.
Ascend.
- 48.00 Top of flat top spur projecting S. 3 chs.
- 52.00 Descend into gulch.
- 54.50 Gulch draining E. 20 ft. below flat top spur.
Ascend.
- 64.70 Top of flat ridge bearing E. and W. 135 ft. above gulch.
Vertical rim rock 4 chs. west, bearing SW. and NW.
- 69.00 Wash draining E. Ascend.
- 75.00 Ridge bears S. 60° E. and N. 60° W. 40 ft. above wash.
- 76.60 Enter sagebrush flat.
- 79.00 Descend from small ledge bearing S. 45° E. and N. 45° W.
- 80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in
the ground for the cor. secs. 19, 20, 29 and 30, mkd. on brass
cap
- | | |
|---------------|------|
| T 28 S R 26 E | |
| S 19 | S 20 |
| S 30 | S 29 |

1915

from which

- Aspen 5 ins. dia., bears N. 20° 30' E.,
147 lks. dist. mkd. T 28 S R 26 E S 20 B T.
- Pinon pine 5 ins. dia., bears S. 42° E.,
61 lks. dist. mkd. T 28 S R 26 E S 29 B T.
- Pinon pine 9 ins. dia., bears S. 83° W.,
82 lks. dist. mkd. T 28 S R 26 E S 30 B T.
- Yellow pine 16 ins. dia., bears N. 59° 30' W.,
155 lks. dist. mkd. T 28 S R 26 E S 19 B T.
- Corner falls at foot of low broken ledges on slope
facing NE. about 1 ch. west of Hop Creek, in oak brush
undergrowth.
- Land mountainous.
- Soil
- Timber cedar and pinon pine.
- Undergrowth buck and oak brush.
- Oct. 19: At this cor. at apparent noon I set off 9°
47' S. on the decl. arc, and observe the sun on the
meridian; the resulting lat. is 38° 22'.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Oct. 20:

S. $89^{\circ}56'W.$ on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.76 Fall 14 lks. north of cor. of secs. 19 and 30, heretofore described, on W. bdy. of Tp.

Thence

N. $89^{\circ}50'E.$ on a true line bet. secs. 19 and 30.

.46 Gulch draining S.

Ascend.

5.76 Ridge bearing N. and S. 35 ft. above gulch.

Begin descent.

8.76 Bottom of descent, drains S.

Ascend.

13.76 Ridge bearing N. and S. 30 ft. above bottom.

Descend.

19.06 Gulch draining S. 70 ft. below ridge.

Ascend to mesa.

Thence over uneven mesa through dense cedar and pinon pine timber.

39.88 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. on brass cap

S $\frac{19}{4}$

S 30

1915

from which

Pinon pine 10 ins. dia., brs. N. $40^{\circ}W.$,

40 lks. dist. mkd. $\frac{1}{4}$ S 19 B T.

Pinon pine 5 ins. dia., brs. south,

26 lks. dist. mkd. $\frac{1}{4}$ S 30 B T.

Corner falls on mesa, 105 ft. above gulch, in pinon pine and cedar timber.

59.76 Begin descent from mesa bearing N. and S.

65.36 Gulch draining N. $15^{\circ}E.$, 180 ft. below $\frac{1}{4}$ cor.

68.76 Ascend from gulch on sl ope facing NW.

69.86 Top of uneven mesa bearing S. $45^{\circ}E.$ and N. $45^{\circ}W.$

Thence over mesa.

SUBDIVISIONS T. 22 S. R. 26 E.

Chains

Descend abruptly from mesa over a succession of ledges bearing N. and S., through cedar and pinon pine timber and undergrowth of buck brush.

74.16 Enter sagebrush flat.

76.96 Trail bearing S. 40° E. and N. 40° W. going up Hop Creek Canyon.

77.86 Descend gradually over sagebrush flat, to top of low ledges bearing N. 45° W. and S. 45° E., 30 ft. above cor.

79.76 The corner of secs. 19, 20, 29 and 30.

Land rim of canyons and mesa.

Soil on mesa red sandy loam, 2 ft. or more deep, stony in part with sandstone subsoil, 2nd rate.

Timber cedar and pinon pine.

Undergrowth buck and sage brush.

October 20, 1915.

Oct. 28: At 8h a.m. apparent time, I set off 38° 22' on the lat. arc, and 12° 51' 39" S. on the decl. arc, and determine a meridian with the solar at the cor. of secs.

19, 20, 29 and 30.

Thence ascend through dense oak and rose brush to Hide

North bet. secs. 19 and 20. Descending into Hop Creek, through aspen and cottonwood timber and oak brush undergrowth growing along same.

3.20 Hop Creek course S. 15° E., 25 ft. below cor. No water at this point.

Thence ascend through dense oak and rose brush to Hide Out Mesa.

10.41 Base of abrupt ascent.

Ascend over broken ledges bearing S. 40° E. and N. 40° W.

21.00 Top of ledges bearing N. 20° W. and S. 20° E. Continue to ascend through cedar and pinon pine timber.

28.00 Top of mesa bearing N. 20° W. and S. 20° E. 360 ft. above ledges.

Thence over mesa through dense cedar and pine timber.

49.00 Set an iron post, 3 ft. long, 1 in. in dia., 2 1/2 in. in

22 SUBDIVISIONS T 28 S R 26 E.

Chains

the ground for the 1 sec. cor. mkd. on brass cap

1 S 19 | S 20

1915

from which

Pinon pine 10 ins. dia., brs. N. 89° E.,

10 lks. dist. mkd. 1 S 20 B T.

Pinon pine 13 ins. dia., brs. N. 74° W.,

39 lks. dist. mkd. 1 S 19 B T.

Corner falls on gradual slope facing S. in dense pinon pine and cedar timber.

Continue through dense pinon pine and cedar timber, on

Hide Out Mesa.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the cor., secs. 17, 18, 19 and 20, mkd. on brass cap

T 28 S R 26 E

S 18 | S 17

S 19 | S 20

1915

from which

Cedar 14 ins. dia., brs. N. 18° E.,

22 lks. dist. mkd. T 28 S R 26 E S 17 B T.

Pinon pine 7 ins. dia., brs. S. 74° E.,

4 lks. dist. mkd. T 28 S R 26 E S 20 B T.

Pinon pine 10 ins. dia., brs. S. 79° W.,

37 lks. dist. mkd. T 28 S R 26 E S 19 B T.

Cedar 18 ins. dia., brs. N. 66° W.,

82 lks. dist. mkd. T 28 S R 26 E S 18 B T.

Corner falls on mesa draining SW. in dense cedar and pinon pine timber.

Land south 28 chs. rough, rocky canyon; north of here mesa sloping S.

Soil canyon sides, rocky, 4th rate; mesa shallow red, sandy loam with sandstone subsoil close to surface, 3rd rate.

Timber cedar and pinon pine with some cottonwood.

Undergrowth oak brush.

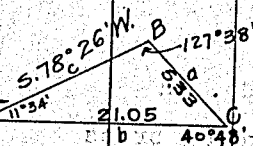
SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Note: On account of triangulating, I run West on a random line bet. secs. 18 and 19. Over mesa sloping S. through dense pinon pine and cedar timber.

22.79 East side of Hop Creek Canyon, impossible to chain.

Set triangulation point. To determine distance across Set a flag on line on W. side of Hop Creek Canyon. Then measure a base N. $49^{\circ}12'$ W. 5.33 chs. to a point whence the flag on W. side of Hop Creek Canyon bears S. $72^{\circ}26'$ W. From the flag the N. end of base bears N. $72^{\circ}26'$ E. Therefore



$$\begin{aligned}\log. a &= 0.726727 \\ \log. \sin. B &= 9.898689 \\ \text{colog. sin. A} &= 0.697268 \\ \log. b &= 1.325284 \\ b &= 21.05\end{aligned}$$

22.79 + 21.05 = 43.84 chs. to

West side of Hop Creek Canyon.

79.81 Fall 1 lk. N. of the cor. of secs. 18 and 19 on W. bdy. of Tp. heretofore described.

Thence

East on true line bet. secs. 18 and 19.

Ascending gradually over rolling land through sage and buck brush undergrowth.

7.80 Divide between Hop Creek and Two Mile Creek bearing N. and S. 40 ft. above cor.

Descend.

12.60 Draw draining S. 15° E., 25 ft. below divide.

15.30 Small patch of pinon pine and cedar timber.

18.00 Flat top of ridge bearing N. and S. 35 ft. above draw.

Thence over same.

25.00 Descend through heavy buck and oak brush undergrowth and scattering pinon pine timber into Hop Creek.

32.00 Descent bearing NW. and SE.

39.905 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the 1 sec. cor. mkd. on brass cap

S 18

1

S 19

1915

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
	<p>from which</p> <p>Red Cedar 10 ins. dia., brs. N.15°W., 123 lks. dist. mkd. $\frac{1}{4}$ S 18 E T.</p> <p>Yellow pine 16 ins. dia., brs. S.85°30'W., 83 lks. dist. mkd. $\frac{1}{4}$ S 19 E T.</p> <p>Corner falls on very steep slope facing E. 135 ft. below top of descent.</p> <p>44.10 Foot of abrupt descent bearing S.41°E.</p> <p>46.27 Hop Creek draining S.20°E., 155 ft. below foot. No running water in creek.</p> <p>60.11 Rim of Hide Out Mesa. Descend into Hop Creek; course N. and S.</p> <p>74.81 Wash draining S.</p> <p>79.81 The cor. of secs. 17, 18, 19 and 20. Land mountainous with mesa and canyon. Soil red sand and gravelly loam with rocky subsoil, 3rd rate. Timber cedar and pinon with some yellow pine. Undergrowth buck, oak and sage brush.</p>
	<p>North bet. secs. 17 and 18.</p> <p>Ascending gradually over Hide Out Mesa through dense pinon pine and cedar timber.</p> <p>26.25 Descend from mesa bears S.40°E. and N.40°W., 103 ft. above corner.</p> <p>32.80 Descend abruptly over broken ledges bearing N.40°W. and S.40°E. Leave cedar and pinon pine timber, enter scattering yellow pine timber.</p> <p>37.70 Foot of descent.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap</p> <p>Set on $\frac{1}{4}$ S 18 | S 17</p> <p>1915</p>

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

from which

Yellow pine 20 ins. dia., brs. N. 10° E.,
165 lks. dist. mkd. $\frac{1}{4}$ S 17 E T.

Yellow pine 7 ins. dia., brs. N. 62° W.,
215 lks. dist. mkd. $\frac{1}{4}$ S 18 E T.

Corner falls in bottom of dry draw, draining N. 40° W.
at this point; divide in same brs. S. 40° E. 15 chs.
dist. 240 ft. below top of descent.

40.20 Swain's new road to Paradox bears S. 40° E. and to LaSal
bears N. 40° W.

41.00 Base of ascent.

Ascend S. 40° E. and N. 40° W. through oak brush under-
growth.

53.70 Spur bears E. and W. 35 ft. above cor.

Thence descend into Hop Creek basin.

63.00 Same road bears N. 50° E. and S. 50° W.

65.10 Wash drains west.

Foot of descent. Ascend gradually 90 ft. to

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in
the ground for the cor. secs. 7, 8, 17 and 18, mkd. on brass
cap

T 28 S R 26 E
S 7 S 8
S 18 S 17

1915

from which

Yellow pine 20 ins. dia., brs. S. 66° W.,

38 lks. dist. mkd. T 28 S R 26 E S 18 E T.

Yellow pine 16 ins. dia., brs. N. 5° E.,

51 lks. dist. mkd. T 28 S R 26 E S 8 E T.

Yellow pine 20 ins. dia., brs. N. 14° W.,

187 lks. dist. mkd. T 28 S R 26 E S 7 E T.

raise a mound of stone 2 ft. base, 1½ ft. high W.
of cor.

Land mountainous with mesa and canyon bottom.

Soil on mesa shallow, red sandy loam, 3rd rate; canyon
bottom rocky yellow sandstone 4th rate.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Timber cedar and pinon pine with scattering yellow pine.
Undergrowth oak brush.

October 28, 1915.

Oct. 30: At 8h a.m. apparent time I set off $38^{\circ}23'$ on the lat. arc, $15^{\circ}32'S.$ on the decl. arc, and determine a meridian with the solar at the cor. of secs. 7, 8, 17, and 18.

Thence

West on a random line bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.63 Fall 4 lks. north of the cor. of secs. 7, 12, 13 and 18 on the W. ldy. of the Tp. heretofore described.

Thence

N. $89^{\circ}58'E.$ bet. secs. 7 and 18 on true line.

Ascending through cedar and pinon pine timber and oak and sage brush undergrowth.

2.63 Ridge bearing N. and S.

9.06 Enter yellow pine timber and leave cedar and pinon pine bearing N. and S. Descend.

10.98 Gulch drains S. 20 ft. below ridge.

17.23 Paradox trail bearing S. $45^{\circ}W.$ and N. $45^{\circ}E.$
Ascend.

19.63 Ridge bearing N. and S. 35 ft. above gulch.
Descend.

24.13 Draw draining S. 30 ft. below ridge.
Ascend gradually to mesa.

36.13 Continue over mesa, enter cedar and pinon pine and leave yellow pine timber.

39.81 $\frac{1}{2}$ Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

S. 7

$\frac{1}{4}$

S. 18
1915

from which

SUBDIVISIONS T. 25 S. R. 26 E.

Chains

Cedar 8 ins. dia., brs. N.20°W.,

23 lks. dist. mkd. $\frac{1}{4}$ S 7 E T.

Cedar 10 ins. dia., brs. S.27°W.,

27 lks. dist. mkd. $\frac{1}{4}$ S 18 E T.

Corner falls on slope of mesa facing S.

41.63 Leave pinon pine and cedar timber:

Ascend through oak brush undergrowth to mesa.

50.63 Top of mesa bearing S.33°E. and N.33°W.

50.64 Swain's house on Hop Creek bears N.14°W.

Descend over broken ledges.

52.40 Base of ledge bearing S.30°E. and N.30°W.

61.73 Trail bears N. and S.

67.23 Hop Creek draining S. with small stream of water 3 lks:
wide, 2 ins. deep, 405 ft. below top of mesa.

71.63 Enter pinon pine and cedar timber.

73.63 Ridge bearing N. and S.

75.63 Leave pinon pine and cedar timber, enter yellow pine.
Descend.

78.43 Gulch drains S.15°W. 35 ft. below cor.

Thence ascend from gulch through scattering yellow
pine timber and scattering undergrowth of sage and
oak brush.

79.63 The cor. of secs. 7, 12, 13 and 18.

Land mountaneous with mesa and canyon.

Soil on mesa red, sandy loam, bare rock to 2' deep, 3rd rate.

Timber yellow and pinon pine and cedar.

Undergrowth oak and sage brush.

Oct. 30: At this cor. at apparent noon I set off $13^{\circ}36'30''$
S. on the decl. arc, and observe the sun on the meridian,
the resulting lat. is $36^{\circ}23'$.

North bet. secs. 7 and 8.

Ascending gradually through oak brush and scattering sage-
brush undergrowth, leaving yellow pine timber, where a
few grow along gulch to west of line.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

22.00 Spur projects W. 3 chs. 80 ft. above cor. .
Thence descend gradually into bottom of Hop Creek.

27.90 Foot of descent 12 ft. below spur.
Enter dense willows and underbrush along creek bottom.
Creek about 10 to 15 lks. along line west.

32.96 Leave willows on creek bottom, enter dense oak brush.
Road bears S.10°E. and N.10°W., branching 50 lks. NW.,
one going west to W. fork and one going north.

33.80 Paradox trail bears E. and W.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in
the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap
 $\frac{1}{4}$ S 7 | S 8
1915
from which
Pinon pine 8 ins. dia., brs. S.75°E.,
2.27 chs. dist. mkd. $\frac{1}{4}$ S 8 B T.
Cottonwood 5 ins. dia., brs. N.41°15'W.,
65 lks. dist. mkd. $\frac{1}{4}$ S 7 B T.
Corner falls on creek bottom, surrounded by oak brush,
25 ft. above foot of descent.
Continue along creek bottom, ascending gradually through
oak brush undergrowth.

41.40 Road going up east fork of Hop Creek.

44.00 Same road zig zags across line.

47.00 Leave road bearing N.15°E. and S.15°W.

55.00 Leave creek bottom bearing S. and N.70°W.

71.80 Same road bearing N.10°W. and S.10°E.

80.00 Set an iron post 3 ft. long 2 ins. in dia., 24 ins. in
the ground for the cor. secs. 5, 6, 7 and 8, mkd. on brass cap
T 28 S R 26 E
S 6 | S 5
S 7 | S 8
1915
from which
Yellow pine 8 ins. dia., brs. N.53°E.,
1.22 chs. dist. mkd. T 28 S R 26 E S 5 B T.
No other bearing trees available, raise a mound of stone

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

2 ft. base, $1\frac{1}{2}$ ft. High W. of cor.

Corner falls on slope facing SW. in oak brush undergrowth.

Land rolling canyon bottom, drains south.

Soil yellow sandy stony loam with cobbles and rocks,

3rd rate.

Timber yellow pine, pinon pine and cottonwood.

Undergrowth oak and sagebrush and willows.

S. $89^{\circ}58'$ W. on random line bet. secs. 6 and 7.40.00 Set temp. $\frac{1}{4}$ sec. cor.79.72 Fall 5 lks. north of cor. for the cor. of secs. 1, 6, 7
and 12, on W. bdy. of Tp. heretofore described.

Thence

N. $89^{\circ}56'$ E. on true line bet. secs. 6 and 7.Over mesa land through yellow pine timber and manzanita,
oak, buck and scattering sagebrush undergrowth.12.00 Gulch draining S. 20° E., 40 ft. below cor.17.00 Top of flat top spur projects S. 20° E. 4 chs.

21.50 Descend bearing N. and S.

30.60 Gulch draining S. 100 ft. below top of descent.

34.00 Ascend abruptly N. and S. over sandstone ledges.

38.50 Top of abrupt ascent bearing N. and S.

Thence ascend to ridge.

39.86 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in
the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

S. 6

 $\frac{1}{4}$

S 7

1915

from which

Yellow pine 24 ins. dia., bears S. $70^{\circ}30'$ W.,170 chs. dist. mkd. $\frac{1}{4}$ S 7 B T.Yellow pine 18 ins. dia., bears N. 10° W.,2.12 chs. dist. mkd. $\frac{1}{4}$ S 6 B T.

Corner falls in buck brush undergrowth on slope facing

W. 95 ft. above gulch.

SURVEY DIVISION T. 25 S. R. 26 E.

Chains

- 42.50 Descend abruptly from spur projecting S.10°E. and N:10°W. 20 chs., over broken ledges.
- 50.40 Foot of abrupt descent. Thence descend gradually into Hop Creek.
- 62.80 Gulch draining S.15°E. 350 ft. below top of descent. Ascend.
- 67.00 Ridge bearing S:20°E. and N.20°W.; 6 ft. above gulch.
- 72.80 Hop Creek, course S.10°E., 5 lks. wide, 2 ins. deep, good water.
- 77.00 Road bearing N. and S. Connects with roads to LaSal and Paradox.
- 79.72 The cor. of secs. 5, 6, 7 and 8.
Land rough, canyon and mesa draining SE.
Soil rocky on sandstone subsoil, 4th rate.
Timber yellow pine.
Undergrowth manzanita, sarvice berry and sagebrush.

October 30, 1915.

November 2:

North on true line bet. secs. 5 and 6.

Ascending over rolling land through yellow pine timber and oak and scattering sagebrush.

5.20 Wash draining S.50°W.

24.65 Road bears S.15°W. and N.15°E.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap
$$\begin{array}{c} \frac{1}{4} S 6 \quad | \quad S 5 \\ 1915 \end{array}$$

1915

from which

Yellow pine 10 ins. dia., brs. S.26°W.,

91 lks. dist. mkd. $\frac{1}{4}$ S 6 B T.

Yellow pine 18 ins. dia., brs. N.8°E.,

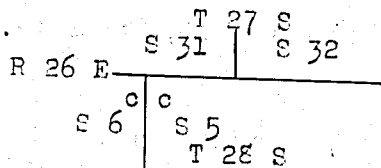
110 lks. dist. mkd. $\frac{1}{4}$ S 5 B T.

Corner falls on slope facing SW. in oak patch, 135 ft. above sec. cor.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

- Continue ascent over rolling land through scattering yellow pine timber and oak brush undergrowth.
- 57.70 Wash draining S.10°W.
- 74.00 Leave yellow pine timber bearing E. and W.
- 77.90 Road in depression bearing S.15°E. and N.15°W.
- 82.50 Leave valley bearing S.45°E. and N.45°W. and ascend SW. slope of mesa, 99 ft. above cor.
- 89.90 Trail bears S.60°E. and N.60°W.
- 92.39 Fall 4.26 chs. S.89°34'W. of old cor. of secs. 5, 6, 31 and 32 on N. bdy. of Tp. in SW. cor. of fence, heretofore described.
Set an iron post, 3 ft. long, 2 ins. in dia., 10 ins. in ground with mound of stone around post, for closing corner of secs. 5, and 6, mkd. on brass cap



1915

and raise a mound of stone 2 ft. base, 1½ ft. high S. of cor.

Corner falls at intersection of line 4.26 chs. S.89°34'W. of old cor. under E. and W. line of fence on slope facing SW., 240 ft. above ¼ sec. cor.

Note: I destroy all marks on old cor. for secs. 5 and 6.

Land rolling mountainous bench land in Hop Creek Canyon, draining W.

Soil red, yellow, sandy loam, coarse and rocky

Timber scattering yellow pine

Undergrowth oak brush and sagebrush.

November 2, 1915.

Oct. 19: At 8h 30m a.m. apparent time, I set off 38°20' on the lat. arc, 9°43'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 32 and 33 on S. bdy. of Tp. heretofore described.

Thence

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

North bet. secs. 32 and 33.
Descending from bench through sagebrush undergrowth into LaSal Canyon.

5.49 Trail bears E. and W.

6.99 Leave sagebrush park bearing E. and W. 5 chs. N. on either side. Enter cedar and pinon pine timber.

12.19 Begin steep descent.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground on edge of broken ledges, for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

$\frac{1}{4}$ S 32 | S 33

1915

from which

Pinon pine 6 ins. dia., brs. S. 57° 30' E.,

46 lks. dist. mkd. $\frac{1}{4}$ S 33 B T.

Pinon pine 9 ins. dia., brs. S. 40° W.,

5 lks. dist. mkd. $\frac{1}{4}$ S 32 B T.

Corner falls 445 ft. below sec. cor.

Unsurveyable canyon ahead. To determine distance across I proceed as follows:

Set a flag on line on opposite side, then measure a base of secs. 4, 5, 32 and 33

line from cor. west 64.08 chs. dist. to a point from

which flag across canyon bears N. 40° 00' E. From the flag on opposite side the west end of base bears S. 40° 00' W.

Therefore

$\cot. 40^\circ \times \text{base}$

$$\begin{array}{rcl} \log. 64.08 & = & 1.806723 \\ \log. \cot. 40^\circ & = & 10.076186 \\ \log. a & = & 1.882909 \\ a & = & 76.37 \end{array}$$

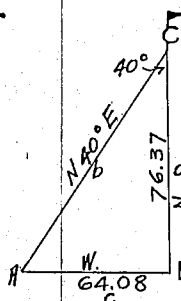
Descend abruptly from $\frac{1}{4}$ cor. over sandstone ledges bearing E. and W.

59.00 LaSal Creek, 10 lks. wide, 14 ins. deep, good water, in narrow canyon bottom, 594 ft. below $\frac{1}{4}$ cor. draining E..

59.20 Road bearing E. and W., Paradox to LaSal.
Telephone line bearing same.

61.00 Ascend abruptly over sandstone ledges.

76.37 Triangulation point on north brink of canyon bearing E.



SUBDIVISIONS T. 28 S. R. 26 E.

Chains

and W., 645 ft. above creek.

Thence over rough bench land.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 26 ins. in the ground for the cor. secs. 28, 29, 32 and 33, mkd. on brass cap

T 28 S R 26 E	
S 29	S 28
S 32	S 33

1915

from which

Cedar 6 ins. dia., brs. N. 46° 30' E.,

56 lks. dist. mkd. T 28 S R 26 E S 28 B T.

Cedar 7 ins. dia., brs. S. 49° E.,

32 lks. dist. mkd. T 28 S R 26 E S 33 B T.

Cedar 7 ins. dia., brs. S. 37° W.,

15 lks. dist. mkd. T 28 S R 26 E S 32 B T.

Pinon pine 8 ins. dia., brs. N. 5° W.,

43 lks. dist. mkd. T 28 S R 26 E S 29 B T.

Land extremely rough mountains across LaSal Canyon, with ledge after ledge of sandstone.

Soil rocky and stony with sandstone subsoil, 4th rate.

Timber cedar and pinon pine.

Undergrowth scattering sagebrush.

West bet. secs. 29 and 32, on random line.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.91 Fall 7 lks. N. of the cor. of secs. 29, 30, 31 and 32, Thence

N. 89° 57' E. on true line bet. secs. 29 and 32.

Descending gradually through dense oak, buck and rose brush.

2.50 LaSal Creek 10 lks. wide 6 ins. deep, course S. 74° E.

6.60 Creek 10 lks. wide 8 ins. deep, course S.

6 chs. N. is confluence of Hop Creek and Two Mile Creek, forming this creek.

Enter alfalfa patch bearing N. and S.

10.30 Leave alfalfa patch and ascend to top of broken spurs projecting S. 3 chs.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
13.00	Top of broken spurs, 40 ft. above creek bottom. Thence over huge broken boulders.
18.41	Flag at 35.32 ch. point on Utah Colorado Boundary between 91 and 92 M P bears S.64°02'E. $\frac{1}{4}$ sec. cor. between secs. 32 and 33 brs. S.56°57'E.
25.00	Enter Turk's alfalfa field bearing N. and S.
29.80	Spring bears 1 ch. north.
30.20	Leave alfalfa field extending S.20°E. 7 chs. and N. 2 chs.
30.50	NW. cor. of Turk's house brs. S.50 lks.
31.40	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for WC $\frac{1}{4}$ sec. cor. mkd. on brass cap S 29 $\frac{1}{4}$ S 32 1915 and raise a mound of stone 2 ft. base, 1½ ft. high N. of cor. Corner falls at foot of N. slope of canyon bearing S.60°E. and N.60°W. Note: Impracticable to set cor. at 40 ch. point on account of broken ledges and huge broken boulders on very steep canyon side.
33.70	Foot of steep ascent bearing NW. and SE. Ascend abruptly over sandstone ledges. Enter dense pinon and cedar timber leaving flat.
39.95½	Falls on inaccessible ground, impossible to set cor.
47.50	Top of steep ascent. Ascend gradually over edge of bench bearing NW. and SE. Thence over rough bench land sloping SW.
79.91	The cor. of secs. 28, 29, 32 and 33. The W. 30 chs. rough canyon bottom and E. 50 chs. rough broken canyon wall and bench land. Soil some good red loam on W. 30 chs., E. 50 chs. sand rock 4th rate. Timber cedar and pinon pine. Undergrowth scrub sage, oak and sarvice berry brush.

October 19, 1915.

SUBDIVISIONS T. 28 E. R. 26 E.

Chains

Oct. 21:

East bet. secs. 28 and 33.

Descending over broken boulders, through cedar and pinon pine timber.

6.90 Gulch drains S.15°E. 495 ft. below cor.

Ascend.

10.00 Spur projects S. 3 chs. 15 ft. above gulch.

Descend.

13.40 Gulch draining S.15°E. 80 ft. below spur.

19.25 Ridge bearing N. and S. 115 ft. above gulch.

Descend.

24.25 Gulch draining S. 105 ft. below ridge.

29.70 Spur projects S. 2 chs., 95 ft. above gulch.

39.47 Fall 6 lks. S.0°05'E. of the 92 M P on Utah Colorado

Boundary Line heretofore described, which we restored.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in
very solid rock in crack of two big rocks, for CC of secs
28 and 33, mkd. on brass cap

T 28 S	
R 26 E	
S 28	92 M P
c	
c	
S 33	
U C	

1915

from which

Pinon pine 7 ins. dia., brs. N.89°W.,

41 lks. dist. mkd. T 28 S R 26 E S 28 BT.

Pinon pine 7 ins. dia., brs. S.18°W.,

48 lks. dist. mkd. T 28 S R 26 E S 33 BT.

Corner falls between two large boulders on rough
broken slope facing SE. in cedar and pinon pine timber.

Land rough bench sloping SE.

Soil red, sandy, stony soil with sandstone subsoil,

4th rate.

Timber cedar and pinon pine.

Undergrowth scrub sagebrush.

Oct. 21: At this point at apparent noon I set off 10°

See page 283

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

203 lks. dist. mkd. T 28 S R 26 E S 28 B T.
 Pinon pine 8 ins. dia., brs. N. 66° 95' E.,
 194 lks. dist. mkd. T 28 S R 26 E S 21 B T.
 Pinon pine 12 ins. dia., brs. N. 1° 15' W.,
 500 lks. dist. mkd. T 28 S R 26 E S 20 B T.
 Corner falls on sagebrush flat.
 Land very rough and mountainous, consisting of rough
 bench and high point of mesa draining SE.
 Soil rocky and shallow with sandstone subsoil, 4th rate.
 Undergrowth scrub sagebrush.
 October 21, 1915.

Oct. 22: At 9h a.m. apparent time, I set off 38° 22' on
 the lat. arc, 10° 48' S. on the decl. arc, and determine
 a meridian with the solar at the cor. of secs. 20, 21,
 28 and 29.

Thence

S. 89° 57' W. on random line bet. secs. 20 and 29.

Over sagebrush flat.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.91 Intersect N. and S. line 27 lks. S. of the cor. of secs.
 19, 20, 29 and 30.

Thence

S. 89° 51' E. on true line bet. secs. 20 and 29.

Along rim rock bearing E. and W. and breaking off to S.

2.00 Hop Creek draining S. 15° E., no running water but water in
 holes 3 lks. wide, 6 ins. deep, 20 ft. below cor.

Thence ascend to bench.

3.50 Top of bench bearing S. 15° E. and N. 15° W., 50 ft. above
 creek.

Continue gradual ascent through dense cedar and pinon
 pine timber.

21.50 Base of abrupt ascent bearing S. 45° E. and N. 45° W.

Thence ascend over broken rim rock.

26.00 Top of abrupt ascent bearing S. 45° E. and N. 45° W.,
 230 ft. above cor.

See page 253

SUBDIVISIONS T. 28 S. R. 26 E.

chains

30'S. on the decl. arc, and observe the sun on the meridian; the resulting lat. is $38^{\circ}21'$.

North bet. secs. 28 and 29.

Through cedar and pinon pine timber.

3.24 Small gulch draining S. 60° E. 30 ft. below sec. cor.
19.21 130 ft. above gulch. Impassible butte from mesa head.
Offset 10 chs. E., thence on offset line N. 15° S 9 chs.,
thence west 10.00 chs. to line.

35.10 Ledges projecting S. 40° W. 7 chs., 140 ft. above gulch.

38.33 Set flag on line.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in
the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

$\frac{1}{4}$ S 29 | S 28

1915

from which

Pinon pine 6 ins. dia., brs. East.,

92 lks. dist. mkd. $\frac{1}{4}$ S 28 E T.

Pinon pine 8 ins. dia., brs. S. $57^{\circ}30'$ W.,

61 lks. dist. mkd. $\frac{1}{4}$ S 29 E T.

Corner falls on NE. slope of ledges.

Thence continue N. through pinon and cedar timber.

46.66 Gulch draining N. 75° E. 40 ft. below $\frac{1}{4}$ sec. cor.

58.37 Old trail bears N. 10° W. and S. 10° E.

66.07 Leave timber and enter small sagebrush flat bearing E.
and W. 99 ft. on either side.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in
the ground for the cor. secs. 20, 21, 28 and 29, mkd. on brass
cap

T 28 S R 26 E

S 20 S 21

S 29 S 28

1915

from which

Pinon pine 10 ins. dia., brs. S. 29° W.,

150 lks. dist. mkd. T 28 S R 26 E S 29 E T.

Pinon pine 8 ins. dia., brs. S. $86^{\circ}30'$ E.,

See page 251

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Thence ascend gradually through dense cedar and pinon pine timber over mesa.

39.955 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor., mkd. on brass cap

S 20
W

S 29
1915

from which

Pinon pine 7 ins. dia., brs. N. 45° W.,

12 lks. dist. mkd. $\frac{1}{4}$ S 20 E T.

Pinon pine 7 ins. dia., brs. S. 28° 30' W.,

26 lks. dist. mkd. $\frac{1}{4}$ S 29 E T.

Corner falls 50 ft. below point of descent.

45.74 Ascend.

65.72 Top of mesa, 20 ft. above rim rock.

67.60 Top of rim rock.

73.39 Foot of steep ascent to top of mesa, 70 ft. above cor.

74.96 Leave sagebrush flat bearing NW. and SE.

79.91 The cor. of secs. 19, 20, 29 and 30.

Land rough mountains with canyons and mesa land.

Soil on mesa red sandy shallow loam on sandstone subsoil

3rd rate; on canyon sides rock 4th rate.

Timber cedar and pinon pine.

Undergrowth sagebrush.

Oct. 22: Hot on line at noon, observation for lat.

impossible.

East bot. secs. 21 and 25.

Thence across bottom of Lion Canyon, leaving yellow pine timber and sagebrush undergrowth and enter mixed timber.

3.79 Cross bottom of Lion Canyon bears S. 4° E. 20 ft. below sec. cor.

31.42 Triangulate to WC 3 chs. N. on Utah Colorado Boundary.

31.53 Top of ascent, 145 ft. above bottom of Lion Canyon.

36.14 Bottom of gulch draining S. 45 ft. below top of ascent.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

39.55 Fall 7.72 chs. S.0°5'E. of WC. on the Utah Colorado Boundary Line, 28 lks. N. of 93 MP, heretofore described. Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for CC of secs. 21 and 28, mkd. on brass cap

T 28 S	
R 26 E	WC 93 M
S 21	c
S 28	c

U C

1915

from which

Pinon pine 10 ins. dia., brs. N.59°15'W.,

15 lks. dist. mkd. T 28 S R 26 E S 21 B T.

Pinon pine 7 ins. dia., brs. S.24°30'W.,

36 lks. dist. mkd. T 28 S R 26 E S 28 B T.

Corner falls on S. slope of bench, south of mesa.

Land rough mountains draining S.

Soil sandy and rocky and stony on sandrock subsoil,

3rd rate.

Timber cedar and pinon pine.

Undergrowth scrub sagebrush.

October 22, 1915.

Oct. 29: At 8h a.m. apparent time I set off 38°22' on the lat. arc, 13°12'S. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29.

Thence

North bet. secs. 20 and 21.

Descending through sage and oak brush undergrowth and a few yellow pine timber to Lion Canyon.

9.60 Cross bottom of Lion Canyon bearing S.4°E., 15 ft. below sec. cor. Ascend.

10.00 Leave yellow pine timber, enter scattering patches of mixed timber.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the 1/4 sec. cor. mkd. on brass cap

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

$$\begin{array}{c|c} \frac{1}{4} S 20 & S 21 \end{array}$$

1915

from which

Pinon pine 7 ins. dia., brs. S. 40° W.,

10 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.

Pinon pine 7 ins. dia., brs. N. 36° 15' E.,

8 lks. dist. mkd. $\frac{1}{4}$ S 21 B T.

Corner falls on bench 80 ft. above canyon.

Continue north through cedar and pinon pine timber,
descending.48.98 Gulch draining from E. to S. 45° W. 10 ft. below $\frac{1}{4}$ cor..

53.49 Top of steep ascent, spur bearing SW. 80 ft. above gulch.

76.57 Road, Swain's road to Paradox, bears N. 45° W. and S. 58° E.

80.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in
the ground for the cor. secs. 16, 17, 20 and 21, mkd. on brass
cap
$$\begin{array}{c|c} T 28 S R 26 E & \\ S 17 & S 16 \\ \hline S 20 & S 21 \\ 1915 \end{array}$$

from which

Pinon pine 8 ins. dia., brs. N. 23° 30' E.,

17 lks. dist. mkd. T 28 S R 26 E S 16 B T.

Cedar 12 ins. dia., brs. S. 63° E.,

53 lks. dist. mkd. T 28 S R 26 E S 21 B T.

Pinon pine 12 ins. dia., brs. N. 73° 45' W.,

20 lks. dist. mkd. T 28 S R 26 E S 17 B T.

Cedar 10 ins. dia., brs. S. 6° 15' W.,

20 lks. dist. mkd. T 28 S R 26 E S 20 B T.

Corner falls on SW. slope, 85 ft. above gulch.

Land rolling mountains in bottom of Lion Canyon, drains

SW. and SE.

Soil yellow and red sandy loam, mixed with sandrock, 3rd
rate.

Timber cedar and pinon pine and yellow pine.

Undergrowth scattering sagebrush.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	N. 89° 51' W. on random line bet. secs. 17 and 20.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect N. and S. line 12 lks. N. of the cor. of secs. 17, 18, 19 and 20.
	Thence
	S. 89° 56' E. on true line bet. secs. 17 and 20.
	Over level mesa, through cedar and pinon pine timber.
24.26	Top of rim of Hide Out Mesa bearing NW. and SE.
	Descend abruptly from rim of Hide Out Mesa bearing NW. and SE. to
31.90	Foot of abrupt descent.
34.76	Trail bears N. 45° W. and S. 45° E.
39.95	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap
	<div style="text-align: center;"> $\frac{1}{4}$ <hr/> S 20 1915 </div>
	from which
	Pinon pine 6 ins. dia., brs. N. 0° 30' W.,
	55 lks. dist. mkd. $\frac{1}{4}$ S 17 B T.
	Pinon pine 9 ins. dia., brs. S. 55° E.,
	33 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.
	Corner falls on NW. slope, 245 ft. below top of rim.
	Descend 20 ft. into W. fork of Lion Canyon bearing S. 45° E. through scattering timber.
40.84	Bottom of W. fork of Lion Canyon, draining SE.
	Begin ascent.
54.40	Top of ascent.
	Descend.
59.46	Road bears N. 45° W. and S. 45° E., 25 ft. below top.
	Main spur of mesa divides E. and W. forks of Lion Canyon; broken ledges 4 chs. N. Spur extends 14 chs. S.
	Descend.
69.22	Gulch draining S. 20° E. 75 ft. below spur. W. side of E. fork of Lion Canyon.
70.69	Spur between two gulches which drain E. fork of Lion

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

Canyon, extends about 2 chs. S. 20 ft. above gulch.
Descend.

72.12 Gulch draining E. side of E. fork of Lion Canyon drains
S. 45°W., 10 ft. below spur.

74.90 N. side of road bearing E. and W.
Thence ascend through pinon pine and cedar timber.

79.90 The cor. of secs. 17, 18, 19 and 20.
Land mesa and rough canyon draining SE.
Soil on mesa red, sandy loam, 12 ins. deep, on sandrock
subsoil, 2nd rate, on canyon rocky, 4th rate and in
canyon bottom sandy 3rd rate.
Timber cedar and pinon pine.
Undergrowth sagebrush.

East bet. secs. 16 and 21.
Ascending gradually through dense cedar and pinon pine timber.

6.30 Huge broken boulders on line.

10.00 Ridge with huge broken boulders bearing N. and S. 75 ft.
above cor. Thence descend into Lion Creek over huge
boulders through cedar and pinon pine timber.

12.23 Left point for triangulation.

15.20 Road to Paradox bears S. 15°W. and N. 15°E.

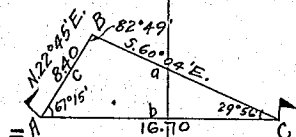
16.40 Lion Creek, no water, drains S. 15°W., 75 ft. below road.

18.00 Ridge bearing S. 20°W. and N. 20°E., 30 ft. above creek.
Triangulate from point on line to flat at 12.23 chs. point,
as follows:

Set a flag east on top of high mesa. From my flag set at
12.23 ch. I measure a base N. 22°45'E. 8.40 chs. From N.
end of base, flag bears S. 22°45'W. From N. end of base
the flag on top of mesa to the east bears S. 60°04'E.
Therefore

log. a	=	0.924279
log. sin. B	=	0.996578
colog. sin. C	=	0.301906
log. b	=	<u>1.222763</u>
b	=	16.70 + 12.23

28.93 Ledges bearing NE. and SW. 20°.



SUBDIVISIONS T. 28 S. R. 26 E.

Chains.

From this point we continue over mesa through yellow pine cedar and pinon pine timber.

39.74 Intersect Utah Colorado Boundary Line 20 lks. N.0°04'E. of 94 M P, heretofore described.

Set an iron post 3 ft. long, 2 ins. in dia., on solid sandstone with mound of stone around post, for CC to secs. 16 and 21, mkd. on brass cap

T 28 S

R 26 E

S 16

c

S 21

94 M

U C

1915

from which

Pinon pine 10 ins. dia., bears S.63°W.,

18 lks. dist. mkd. T 28 S R 26 E S 21 B T.

Pinon pine 8 ins. dia., bears N.31°W.,

97 lks. dist. mkd. T 28 S R 26 E S 16 B T.

Corner falls on mesa on solid sandstone, soil being washed off, which I mark with cross (x) on rock, and 190 ft. above 12.23 ch. flag point, in pinon and cedar timber.

Land mountainous with ridges and huge boulders.

Soil yellow and red sandy loam, 3rd rate.

Timber cedar and pinon pine

Undergrowth sagebrush.

North bet. secs. 16 and 17.

Ascending gradually through dense cedar and pinon pine timber.

8.00 Enter huge broken boulders among pinon pine and cedar timber.

15.20 Top of ledges bearing NW. and SE.

Thence along W. slope of same entering yellow pine timber.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

27.40 Leave ledges and ascend along E. side of gulch over mesa.

From this point mesa bears S. 5 chs., thence NW.

40.00 Set an iron post 3 ft. long, 2 ins. in dia., in crevice at foot of steep descent bearing N. 45° W. and S. 45° E. for $\frac{1}{4}$ sec. cor. mkd. on brass cap

$\frac{1}{4}$ S 17 | S 16

1915

from which

Yellow pine 14 ins. dia., brs. N. 79° W.,

61 lks. dist. mkd. $\frac{1}{4}$ S 17 B T.

Pinon pine 14 ins. dia., brs. N. 61° E.,

28 lks. dist. mkd. $\frac{1}{4}$ S 16 B T.

Corner falls on low ledges sloping to west, 75 ft. above top of ledges. Gulch draining S. 1 ch. west of line.

October 29, 1915.

Nov. 1: At this cor. at 8h a.m. apparent time, I set off 38° 23' on the lat. arc, 14° 11' S. on the decl. arc, and determine a meridian with the solar.

Thence ascend along E. side of gulch over mesa, through yellow pine timber.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the cor. secs. 8, 9, 16 and 17, mkd. on brass cap

T 28 S R 26 E

S 8 | S 9

S 17 | S 16

1915

from which

Yellow pine 24 ins. dia., brs. N. 32° E.,

85 lks. dist. mkd. T 28 S R 26 E S 9 B T.

Yellow pine 18 ins. dia., brs. S. 20° E.,

195 lks. dist. mkd. T 28 S R 26 E S 16 B T.

Yellow pine 16 ins. dia., brs. S. 86° W.,

55 lks. dist. mkd. T 28 S R 26 E S 17 B T.

Yellow pine 19 ins. dia., brs. N. 36° 30' W.

80 lks. dist. mkd. T 28 S R 26 E S 8 B T.

Corner falls on mesa, 290 ft. above $\frac{1}{4}$ sec. cor., in yellow pine timber.

SUBDIVISIONS T. 25 S. R. 26 E.

Chains

Land S. half rough broken mesa draining S., N. half mesa sloping S.

Soil generally rock, sandy loam, shallow and with sandstone subsoil, 3rd rate.

Timber cedar and pinon pine and yellow pine.

Undergrowth none.

N. 89° 56' W. on random line bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.94 Intersect W. and S. line 5 lks. S. of the cor. of secs. 7, 8, 17 and 18.

Thence

S. 89° 54' E. on true line bet. secs. 8 and 17.

3.94 Road bearing S. 20° W. and N. 20° E.

Begin ascent through pinon pine and cedar timber and undergrowth of oak and sagebrush.

15.14 Begin abrupt ascent bearing N. and S.

20.49 Rim rock about 60 lks. high, brs. N. 20° E. and S. 30° W.

34.94 Thence over mesa bearing N. and S.

Descend through yellow pine timber and buck brush undergrowth.

39.97 Set an iron post 5 ft. long, 1 in. in dia., 24 ins. in the ground for $\frac{1}{4}$ sec. cor., mkd. on brass cap

S 8

$\frac{1}{4}$

S 17

1915

from which

Yellow pine 16 ins. dia., brs. S. 28° E.,

50 lks. dist. mkd. $\frac{1}{4}$ S 17 P T.

Yellow pine 10 ins. dia., brs. N. 33° W.,

52 lks. dist. mkd. $\frac{1}{4}$ S 8 P T.

Corner falls on slope facing E. 50 ft. below top.

Descend.

44.54 Dash in draw, heads about 15 cks. NW.

48.00 Begin abrupt ascent bearing N. and S.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
52.61	Top of abrupt ascent bearing N. and S. Thence continue ascent.
64.74	Top of flat top ridge bearing N. and S. Descend.
67.69	Draw drains S. 40 ft. below top. Thence ascent through yellow pine timber and buck brush and manzanita undergrowth.
79.94	The cor. of secs. 8, 9, 17 and 18. Land mountainous with mesa and broken rims of canyons draining S. Soil red sand and disintegrated rock, 3rd rate. Timber yellow pine, pinon pine and cedar. Undergrowth manzanita, buck, sarvice berry and sagebrush.
<hr/>	
	Nov. 1: Not on line at noon, observation for lat. impossible.
	East bet. secs. 9 and 16. Ascending gradually through yellow pine timber to low ridge on mesa.
1.00	Ridge bearing N. and S. 3 ft. above cor. Thence descend into State Line Draw.
13.00	Foot of descent bearing N. and S. 160 ft. below cor.
14.52	Wagner's house hrs. S. 30° E.
14.30	Road bearing N. and S. to house in draw.
15.20	Spring branch drains S. 2 lks. wide. Thence ascend through buck brush undergrowth and yellow pine timber to bench.
20.60	Top of bench bearing N. and S. Thence over same.
23.80	Dugway road bearing S. 40° W. and N. 40° E. Leave bench and ascend to mesa.
28.50	Top of abrupt ascent bearing N. and S.
32.32	Road bearing NE. and NW. Begin ascent.
33.40	Top of ascent bearing N. and S.
39.74	Intersect Utah Colorado Boundary Line 17 lks. S. 0° 04' W. of 95 M P.

SUBDIVISIONS T. 24 S. R. 26 E.

Chains

Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for CC to sec. 9 and 16, mkd. on brass

cap

T. 28 S
R. 26 E.

S 9

95 M P

C

C

S 16

U. C

1915

from which

Yellow pine 16 ins. dia., brs. N. 42° W.,

30 lks. dist. mkd. T 28 S R 26 E S 9 BT.

Yellow pine 18 ins. dia., brs. S. 29° 30' W.,

34 lks. dist. mkd. T 28 S R 26 E S 16 BT.

Land generally mountainous with mesa and canyon.

Soil mesa red shallow sand loam, 3rd rate, in canyon

bottom rich, red loam 2nd rate.

Timber yellow pine.

Undergrowth sagebrush.

November 1, 1915.

Nov. 2: At 8h a.m. apparent time, I set off 38° 23' on the lat. arc, 14° 30' S. on the decl. arc, and determine a meridian with the solar at the cor. secs. 8, 9, 16 and 17.

Thence

North bet. secs. 8 and 9.

Ascending gradually over mesa through yellow pine timber.

8.75 Paradox trail bears E. and W.

9.50 Enter pinon pine, cedar and scattering yellow pine timber.

14.90 Leave top of mesa and begin descent along east slope of same, 95 ft. above cor.

21.00 Descend into west fork of State Line Draw, about 12 chs.

E. of mesa, bearing N. 15° W. and S.

31.00 Foot of descent bearing S. 10° E. and N. 10° W. 95 ft. below top of descent. Thence in wide open draw through oak

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
	brush undergrowth.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap
	$\begin{array}{c} \frac{1}{4} S 8 \\ \hline S 9 \\ 1915 \end{array}$
	from which
	Yellow pine, 18 ins. dia., brs. N. 66° E.,
	251 chs. dist. mkd. $\frac{1}{4} S 9$ B. T.
	and raise a mound of stone 2 ft. base, 1½ ft. high W. of cor.
	Corner falls in opening on slope facing SE.
	Thence continue through oak brush undergrowth.
41.45	Trail bearing N. 30° W. and S. 30° E.
47.50	West fork of State Line Draw bearing S. 50° E. 20 ft. below cor. Thence ascend gradually.
60.00	Base of abrupt ascent, bearing NW. and SE.
	Thence ascend to mesa bearing N. 15° W. and S. 15° E. over broken boulders and through pinon pine timber.
65.90	Top of ascent.
	Thence along broken edge of mesa.
	Mouth of gulch in mesa drains 15° W. 5 chs. W. point of mesa which bears NW.
73.00	Gulch draining S. 10° W.
80.00	Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the cor. secs. 4, 5, 8 and 9, mkd. on brass cap
	$\begin{array}{c} T 28 S R 26 E \\ \hline S 5 \quad S 4 \\ S 8 \quad S 9 \\ 1915 \end{array}$
	from which
	Pinon pine 8 ins. dia., brs. N. 38° E.,
	48 lks. dist. mkd. T 28 S R 26 E S 4 B. T.
	Pinon pine 12 ins. dia., brs. S. 7° E.,
	2.63 chs. dist. mkd. T 28 S R 26 E S 9 B. T.
	Pinon pine 9 ins. dia., brs. S. 20° W.,
	1.14 chs. dist. mkd. T 28 S R 26 E S 8 B. T.
	Pinon pine 12 ins. dia., brs. N. 56° W.,

SUBDIVISIONS T. 22 S. R. 26 E.

Chains	1.33 chs. dist. mkd. T. 22 S. R. 26 E. S. 5 B T. Corner falls on mesa 20 lks. W. of wash and 275 ft. above 1/4 sec. cor. Land mountainous draining SE., with mesa and canyon. Soil red, sandy rock loam on sandrock subsoil, 3rd rate. Timber yellow and pinon pine. Undergrowth oak brush.
	N. 89° 54' W. on random line bet. secs. 5 and 8.
40.00	Set temp. 1/4 sec. cor.
79.78	Intersect N. and S. line 2 lks. S. of the cor. of secs. 5, 6, 7 and 8. Thence
	S. 89° 53' E. on true line bet. secs. 5 and 8. Along slope draining SW. through oak brush and scattering yellow pine timber.
26.18	Descent bearing N. 20° E. and S. 20° W.
29.78	Bottom of gulch draining S. 20° W. Ascend.
39.89	Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in the ground for 1/4 sec. cor. mkd. on brass cap S 5 S 8 1915 from which Yellow pine 5 ins. dia., brs. N. 33° W., 35 lks. dist. mkd. 1/4 S 5 B T. Yellow pine 12 ins. dia., brs. S. 23° W., 96 lks. dist. mkd. 1/4 S 8 B T. Corner falls on slope facing W. in manzanita undergrowth. Continue ascent.
44.75	Enter mesa bearing N. and S. Thence ascend over mesa.
59.75	Begin abrupt descent bearing S. 10° E. and N. 20° E.
63.96	Bottom of E. fork of State Line Draw, draining S. Ascend abruptly from draw, over broken ledges, bearing S. 10° E. and N. 20° E.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains	
64.48	Trail bearing N. and S.
68.28	Top of abrupt ascent; thence continue ascent through dense oak brush.
75.78	Descend through yellow pine timber and buck and oak brush undergrowth.
79.78	The cor. of secs. 4, 5, 8 and 9. Land rough, mountainous; with mesa and canyon sides. Soil red sandy loam 12 ins. deep with sandrock subsoil 2nd rate on mesa; on canyon sides rocky red sand, 4th rate. Timber yellow pine. Undergrowth oak brush and sarvice berry brush.
	November 2, 1915.
	Nov. 3 : At 8h a.m. apparent time I set off $32^{\circ}24'$ on the lat. arc, $14^{\circ}49'S$. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 4, 5, 8 and 9. Thence East bet. secs. 4 and 9. Ascending through yellow pine timber and oak brush, sage brush and manzanita undergrowth.
.42	Wash draining $S.6^{\circ}W$.
14.00	Top of ascent bearing N. and S. 65 ft. above cor. Thence descend gradually.
19.00	Descend into State Line Draw.
27.00	Foot of descent bearing N. and S.
36.00	Bottom of State Line Draw bearing S. 130 ft. below top of descent.
39.82	Fall 51 lks. $S.0^{\circ}03'E$. of the 96 M P, heretofore described. At point of intersection I set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for CC of secs. 4 and 9, mkd. on brass cap

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

T 28 S
R 26 E

S. 4 c

96 M P

S 9

c

U

C

1915

from which

Yellow pine 6 ins. dia., brs. S. 33° 30' W.,

27 lks. dist. mkd. T 28 S R 26 E S 9 BT

Yellow pine 8 ins. dia., brs. N. 76° W.,

55 lks. dist. mkd. T 28 S R 26 E S 4 BT

Land mountainous draining S. with mesa and canyon.

Soil shallow yellow and red sandy loam on sandrock
subsoil, 3rd rate.

Timber yellow pine.

Undergrowth manzanita, oak and sage brush.

North bet. secs. 4 and 5.

Ascending gradually over mesa through yellow pine
timber and manzanita and oak brush undergrowth.

15.00 Top of ascent. Thence along slope facing W. to head of
W. fork of State Line Draw to west of line.

Descend.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 24 ins. in
the ground for the $\frac{1}{4}$ sec. cor. mkd. on brass cap

$\frac{1}{4}$ S 5 | S 4

1915

from which

Yellow pine 18 ins. dia., brs. N. 47° E.,

25 lks. dist. mkd. $\frac{1}{4}$ S 4 B T.

Yellow pine 10 ins. dia., brs. S. 70° W.,

42 lks. dist. mkd. $\frac{1}{4}$ S 5 B T.

Corner falls on mesa slope facing W. 125 ft. above
sec. cor.

A patch of aspen timber in draw 165 ft. W. of cor.

Continue along slope facing west through yellow pine
timber and oak brush undergrowth.

SUBDIVISIONS T. 28 S. R. 26 E.

Chains

45.00 Head of W. fork of State Line Draw draining S.15°W.
Thence ascend gradually.

47.30 Trail bearing S.60°E. and N.60°W.

57.50 Divide bearing S.60°E. and N.60°W.

Thence descend into Buckeye Basin, 35 ft. above cor.

58.00 Descend abruptly S.60°E. and N.60°W., through heavy oak brush undergrowth.

62.15 Foot of abrupt descent bearing S.50°E. and N.50°W.

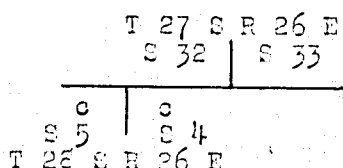
62.70 Trail bearing S.50°E. and N.50°W.

Continue to descend through heavy oak brush.

92.84 Intersect N. bdy. 4.60 chs. S.89°56'W. of the cor. of
secs. 4, 5, 32 and 33, heretofore described on the N.
Edy. of the Tp., destroying all marks on old cor.
pertaining to secs. 4 and 5.

At intersection

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in
a mound of stone 4 ft. base, 4 ft. high, for CO of secs.
4 and 5, mkd. on brass cap



1915

and raise a mound of stone 2 ft. base, 2 ft. high S.
of cor.

Land rolling mountains draining N. and S. from the divide
between Paradox and LaSal.

Soil red sandy loam on sandstone subsoil.

Timber yellow pine.

Undergrowth oak brush, sagebrush and manzanita.

Nov. 3: At this point at apparent noon I set off 14°54'S.
on the decl. arc, and observe the sun on the meridian;
the resulting lat. is 38°25'.

November 3, 1915.

GENERAL DESCRIPTION.

This township is generally very rough and rugged, consisting of mesas extending E. and SE. from the LaSal mountains, and cut by numerous canyons draining generally SE., emptying into the main drainage LaSal Creek, which flows into the Dolores River in the Paradox region, Colorado. These mesas, very irregular in shape, are generally flat topped, sloping SE. and are covered with pinon and cedar timber in the south and yellow pine timber in the north part of the township. The soil is a shallow, red, sandy loam, rocky in part, on sandrock subsoil of coarse loose texture, 2nd rate. These mesas are abruptly cut by deep canyons, the edges being nearly perpendicular sandstone ledges, difficult to climb. The benches on canyon bottom are coarse, red and yellow sandy loam, rocky, but in a few places can be cultivated.

LaSal Canyon, in the southern part of the township, runs E. and is the main canyon. It is very deep and its sides form a series of sandstone ledges. The uranium strata apparently is about $\frac{2}{3}$ the distance up the sides of this canyon, and copper stains are abundant, although no copper ore has been found.

R. Swain has a homestead claim on the Forest Reserve in Sec. 7, a good cabin, about 5 acres plowed land with fencing, value of improvements from \$500 to \$750. The house was occupied by the Swain Bros.

Wagner has a cabin, sheds, corral and fencing in the NE. $\frac{1}{2}$ of Sec. 16, value of improvements about \$500, situated in bottom of "White's Draw" near a good spring of water. His land may be farmed. It is well to mention the fact that Wagner bought this claim about 4 years ago from White of Moab (initials unknown), who claimed that these improvements were in Colorado.

Royal Larson has a good log house, sheds, corral, fencing, irrigation ditch and 10 acres of plowed ground with

GENERAL DESCRIPTION.

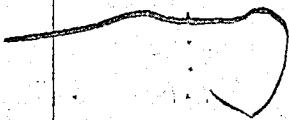
grain, alfalfa and potatoes in the NW. $\frac{1}{4}$ sec. 31; value of improvements \$1000 or more. The family were on the premises.

M. Turk has a shack cabin, corrals and 7 acres of plowed land planted to alfalfa with an irrigating ditch from Hop Creek in secs. 29 and 30; value of improvements about \$500. He was living on the premises.

A poor road in LaSal Canyon, from LaSal to Paradox, is the proposed "Rainbow Route" from Salt Lake to Denver.

A telephone line by Forest Service, bears along the LaSal Paradox road.

The old Paradox Indian Trail traverses the north central part of Tp. and is an important trail.



[Handwritten signature]

BOUNDARIES OF T. 28 S. R. 26 E.

Latitudes, Departures and Closing Errors

Line designated	True Bearing	Distance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
Utah-Colorado-Bdy.						
00 to 91 M	North	.08	.08			
91 M to 93 M	N.0°05'W.	167.82	167.82			.24
93 M to 94 M	N.0°19'E.	72.15	72.15		.40	
94 M to 95 M	N.0°04'E.	80.32	80.32		.09	
95 M to 96 M	N.0°03'W.	80.46	80.46			.07
96 M to 97 M	N.0°06'W.	80.55	80.55			.14
97 M to 00	N.0°04'W.	11.89	11.89			.01
North Boundary						
S.Bdy. sec.33	S.89°36'W.	35.21		.25		35.21
S.Bdy. sec.32	S.89°56'W.	40.09		.05		40.09
S.Bdy. sec.32	S.89°24'W.	39.90		.42		39.90
S.Bdy. sec.31	S.89°34'W.	40.25		.30		40.25
S.Bdy. sec.36	S.89°46'W.	38.00		.15		38.00
	S.89°37'W.	6.05		.04		6.05
	South	4.20		4.20		
W.Bdy. of Tp.	S.0°01'E.	487.71		487.71	.14	
S.Bdy. of Tp.	East	199.70			199.70	
Convergency						
						.24

Error in lat. and dep. $\frac{493.27}{493.12} \frac{493.12}{.13}$ $\frac{200.33}{200.20} \frac{200.20}{.13}$

M. C. Hartman
U.S. TRANSITMAN.

BOOK A-418

CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,
Thos. C. Rathbone, U. S. Surveyor, during the periods and in the capacities
resurveying
stated opposite our several signatures, in surveying all those parts or portions of the Utah-
Colorado Boundary between the 31st. and 38th Mile Cors.: in retracing
all those parts or portions of the north Bdy. of T. 28 S., R. 26 E.,
and in surveying all those parts or portions of the south Bdy. and
subdivisions of T. 28 S., R. 26 E.,

of the Salt Lake Base and Meridian, in the State of Utah

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

[illegible]

Subscribed and certified to before me on the dates of the final service as shown above.

Thos Catharine
D.D.S. Surgeon

U.S. Transitman

FINAL OATH OF UNITED STATES SURVEYOR.

I, Thomas C. Rathbone, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah bearing date of the 20th day of July, 1915, I have well, faithfully, and truly in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, ^{resurveyed} ~~surveyed~~ all those parts or portions of the Utah-Colorado Boundary bet. the 91st and 98th Mile Cors., retraced all those parts or portions of the North Bdy. of T. 28 S., R. 26 E., and surveyed all those parts or portions of the South Bdy. and subdivisions of T. 28 S., R. 26 E.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Thos. C. Rathbone
U. S. Surveyor

Subscribed by said Thos. C. Rathbone, and sworn to before me
this 22d day of May, 1916.

J. C. Horner
U. S. Surveyor General, Utah



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Sept. 22, 1916.

The foregoing field notes of the survey of Resurvey of all those parts or portions of the Utah*Colorado Boundary bet. the 91st and 98th Mile Cors. and retracement of all those parts or portions of the N. Bdy. of T. 28 R. 26 E., and survey of all those parts or portions of the South Bdy. and Subdivisions of T. 28 S., R. 26 E.

executed by Thomas C. Rathbone,
under his special instructions dated July 20, 1915, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

J. C. Horner
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

Blank

Page

Blank

Page

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

Survey of the East Boundary of T. 11 S., R. 19 W. (5 miles)
 a portion of which is E. bdy. of the Goshute Indian Reservation.

Survey of 2 miles and retracement of 1 mile of the South Boundary
 of T. 11 S., R. 19 W.

Retracement of the 2nd Standard Parallel South in R. 19 W., (through
 Sec. 32 and the W $\frac{1}{2}$ of sec. 33) being a portion of the N. bdy. of
 the Goshute Indian Reservation.

Survey of the North Boundary of T. 13 S., R. 18 W. (2 miles)

Survey of the West Boundary of T. 13 S., R. 16 W. (2 miles)

Survey of the South Boundary of T. 12 S., R. 19 W., (2 miles)

Survey of the West Boundary of T. 12 S., R. 19 W., (4 miles) being
 a portion of the W. bdy. of the Goshute Indian Reservation.

Survey of the North Boundary of T. 12 S., R. 19 W., ($\frac{1}{2}$ mile)

(Goshute Indian Reservation)

Of the Salt Lake Base and Meridian,

in the State of Utah

EXECUTED BY

H. L. Baldwin, Topographer

in the capacity of U. S. Surveyor, under instructions dated May 21, 1914,

Commissioner of the General Land Office to A. F. Dunnington,
 issued by the United States Surveyor General to govern surveys included in
 topographer in Charge of Indian Surveys

Group No. ----- which were approved by the Commissioner of the General Land

Office, 191-, pursuant to authority contained in the Act of

Congress dated -----, 191-

Survey commenced October 8, 1914

Survey completed November 25, 1914

BOOK A 413

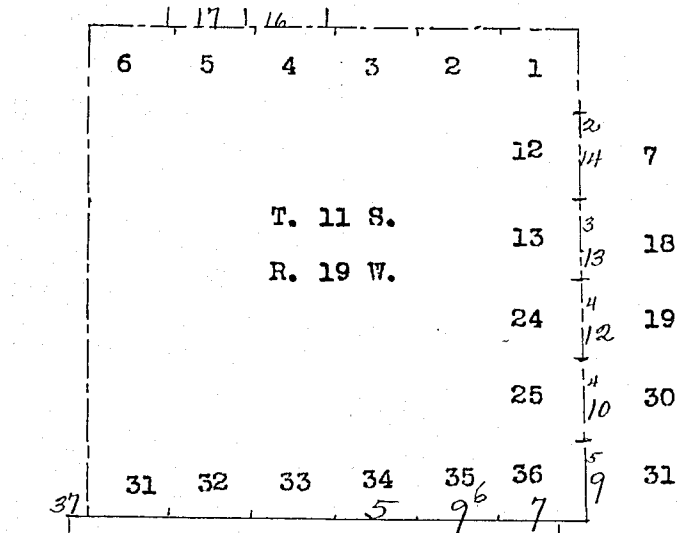
INDEX DIAGRAM:

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

INDEX

2nd Standard Parallel S.



1 34 6
12 33 7
13 32 18
24 31 19

T. 12 S.
R. 19 W.

35 36 31 32
30 29-19 21-26 22-28

25
25 6

T. 13 S.,
R. 19 W.

12 23 7
22

T. 13 S.
R. 18 W.

--	--	--

Blank

Page

--	--	--

Doc. A-418
East boundary of T. 11 S., R. 19 W.,
a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

Survey commenced October 8, 1914, by H. L. Baldwin, Topographer, and executed with a Buff & Buff light weight transit No. 9107, with solar attachment; the horizontal limb being provided with two double verniers placed 180° apart and reading to single minutes of arc.

The instrument was placed in correct adjustment and tested frequently on a meridian established at camp and often on line, the high elevation and clear sky making Polaris observation possible at any time in mid, or late, afternoon.

Owing to the distance from the railroad and difficulty of transporting posts for marking corners, such could not be obtained until just before the close of the season, at which time posts were secured and used in the subdivision of secs. 5 and 8, T. 11 S., R. 19 W., into 10-acre tracts; consequently corners on township, range and section lines in Tps. 11 and 12 S., R. 19 W., and the restored north boundary of T. 13 S., R. 18 W., were marked by stone corners.

I find and begin work at the cor. of secs. 10, 11, 14 and 15, T. 11 S., R. 19 W., which is a granite stone 12x8x8 ins. above ground, firmly set, and witnessed by a mound of stone to the west.

At this point, Lat. 39° 53' N., Long. 113° 57' W., I observe Polaris at eastern elongation on the evening of Oct. 8, at 6h 27.6m - my watch being set at correct L.M.T., and mark the point thus determined on the ground, 5.00 chs. North of the cor.

Blank

Page

East boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

On the morning of Oct. 9 I lay off the azimuth of Polaris $1^{\circ} 30'$ to the West and mark the true meridian thus determined by driving a peg in the ground at this point.

From the cor. of secs. 10, 11, 14 and 15, I run North on a transit line bet. secs. 10 and 11.

80.41 The cor. of secs. 2, 3, 10 and 11.

Oct. 9, 1914.

Here I deflect 90° to the east from the north line, and run East on a random transit line, and at

159.62 Falls 23 lks. N. of the cor. of secs. 1, 6, 7 and 12, on E. bdy. of T. 11 S., R. 19 W., which cor. is a granite stone $15 \times 4 \times 12$ ins. above ground, firmly set, marked with 1 notch on the N. and 5 notches on the S. edge, and witnessed by a mound of stone to the north. This cor. is a cor. on the E. bdy. of the Goshute Indian Reservation.

From the above cor., I run

South on a random line bet. secs. 7 and 12, for distance only.

27.35 Top of ascent with large granite pinnacles bearing E. and W., and immense boulders south on line, making it impossible to chain further or obtain a base for triangulation. I therefore deflect $2^{\circ} 45'$ to the E. and read the distance by stadia which is 8.58 chs. with an angle of elevation of $+16^{\circ} 50'$. This distance corrected gives 7.85 chs. which added to 27.35, equals

35.20 Point obtained by stadia, and which is 38 lks. E. of line.

Oct. 10, 1914.

At this point I backsight to last instrument station,

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

plunge telescope and deflect $6^{\circ} 45'$ to the west and run along this deflection line S. 4° W., 5.47 chs., which brings the line back to the correct position and 5.46 chs. south.

Therefore, $35.20 + 5.46 =$

40.66 Set temp. stake for W.C. to the $\frac{1}{2}$ sec. cor. bet. secs. 7 and 12, at a point on line from which Stadia point 35.20 brs. N. $4^{\circ} 00'$ E.

Thence, South, - continuing very steep ascent through dense aspen and pine forest and scattered mahogany and manzanita brush.

80.00 Set temp. stake for cor. of secs. 7, 12, 13 and 18.

Continue south on a random line bet. secs. 13 and 18.

40.00 Set temp. stake for $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18.

Oct. 12, 1914.

80.00 Set temp. stake for the cor. of secs. 13, 18, 19 and 24.

Continue south on a random line bet. secs. 19 and 24.

40.00 Set temp. stake for $\frac{1}{4}$ sec. cor.

Oct. 13, 1914.

72.23 Top of ridge, brs. N. 40° W. and S. 40° E.

Seeing that it will be impossible to chain most of the distance for the next mile, and no favorable point for base occurring any further south, I set a flag "D" at this point. I also set a flag "A", N. $42^{\circ} 37'$ W. and flag "B" S. $42^{\circ} 37'$ E., and measure the distance with extreme care, obtaining for the length of the base 12.09 chs., which is the longest possible to obtain.

I also set a flag "C" on line on south side of canyon, and owing to the unfavorable conditions, measure each respective angle ten times. The measures, which are all within 1' of the resulting mean, give C - $7^{\circ} 30' 48''$, A - $42^{\circ} 01' 45''$, and B - $130^{\circ} 27' 27''$.

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

Also in the triangle "C A D" the following angles were observed C - $0^{\circ} 35'$, "A" - $42^{\circ} 01' 45''$, D - $137^{\circ} 23' 15''$ and the following proportion obtains:

$$\sin C : AB :: \sin B : AC$$

$$\sin C = 9.116466$$

$$: AB = 1.072426$$

$$:: \sin B = 9.881320$$

$$: AC = X = 1.837280 = 68.75$$

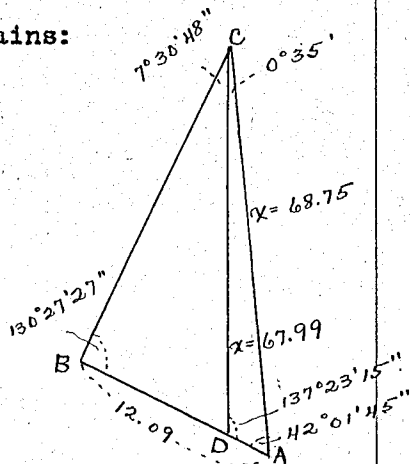
$$\text{also } \sin D : AC :: \sin A : DC$$

$$\sin D = 9.830613$$

$$: AC = 1.837280$$

$$:: \sin A = 9.825756$$

$$DC = X' = 1.832423 = 67.99$$



Notwithstanding the small size of the angle at "C", it was measured so carefully that it cannot be in error by as much as $\frac{1}{2}'$ of arc, which error, if existing, would only mean a difference of 8 lks. The distance of the last half mile could not be measured by stadia, as much of it has a slope of about 60° - snow covered and impossible to chain, and it was impracticable to obtain the distance in any other way than given above.

From the point "D" which, as before given, is at 72.23,

I add the triangulated distance, 67.99 chs.

140.22 Flag "C".

Oct. 14, 1914.

Returning to flag "D", continue south on a random line bet. secs. 19 and 24, descending.

80.00 Set temp. stake for the cor. of secs. 19, 24, 25 and 30.

Continue south on a random line bet. secs. 25 and 30.

40.00 Set temp. stake for the $\frac{1}{4}$ sec. cor.

60.22 Point of triangulation, above noted.

80.00 Set temp. stake for the cor. of secs. 25, 30, 31 and 36.

Blank

Page

East Boundary of T. 11 S., R. 19 W.
a portion of which is E. bdy. of the Goshute Indian Res'n.

Chains

Continue south on a random line bet. secs. 31 and 36.

40.00 Set temp. stake for the $\frac{1}{4}$ sec. cor.

80.00 Set temp. stake for the cor. of secs. 31 and 36, near
the SE. cor. of T. 11 S., R. 19 W.

Oct. 15, 1914.

South Boundary of T. 11 S., R. 19 W.
(Retracement)

T. 11 S., R. 19 W.
I now go to the cor. of secs. 10, 11, 14 and 15, and pro-
ject the meridian there obtained,

South.

200.81 Falls 2 lks. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27,
at which place I deflect transit line S. $33^{\circ}37'W.$, and at

145.51 Falls 34 lks. E. of a quartzite stone 10x8x14 ins. above
ground, firmly set, and marked with 3 notches on W. and
3 notches on E. edge, this being the cor. of secs. 33
and 34 on the S. bdy. of the tp.

At this point I deflect from the backsight $56^{\circ}22'$ to the
southeast, and the true bearing of the line thus deter-
mined is East.

From this point I run East on a tangent line along the
S. bdy. of sec. 34, beginning measurement from the cor.
of secs. 33 and 34.

40.24 Intersect the $\frac{1}{4}$ sec. cor. on the S. bdy. of sec. 34.

81.14 Falls 13 lks. N. of the old cor. of secs. 34 and 35.

Returning to the cor. of secs. 33 and 34, I run
East on a retracement of the S. bdy. of sec. 34. ($W\frac{1}{2}$)
Through sage brush, ascending.

Blank

Page

South Boundary of T. 11 S., R. 19 W.

(Retracement)

Chains

- 18.00 Top of ridge, brs. N. 80° W. and S. 80° E.
Thence level.
- 21.30 Road, brs. NW. and SE.
- 28.50 Descend into canyon.
- 35.00 15-mile Creek, 15 lks. wide, 6 ins. deep, course N., 90
ft. below ridge.
- 35.80 Road, brs. N. and S. Enter strip of aspens.
- 36.90 Spring branch, 4 lks. wide, 2 ins. deep, course NW.
- 38.00 Leave aspens along creek.
- 40.24 The $\frac{1}{4}$ sec. cor. on the S. bdy. of sec. 34, - a granite
stone 6x12x18 ins. above ground, firmly set, marked $\frac{1}{4}$
on N. face, and witnessed by a mound of stone to the N.
Cor. falls 20 ft. above creek.
- Thence S. 89° 48' E. on a retracement of the S. bdy. of
sec. 34 ($\frac{1}{4}$).
- Through sage brush, ascending.
- 12.80 Begin steep ascent, brs. N. and S.
- 26.60 Enter mahogany timber, brs. N. and S.
- 30.40 Top of ridge, brs. NW. and SE., 800 ft. above creek.
Begin descent, through dense pine and aspen timber.
- 35.00 Cross small hollow, course NW.
- 40.90 The cor. of secs. 34 and 35, on S. bdy. of Tp., which cor.
is a granite stone 4x12x10 ins. above ground, firmly
set, marked 5 notches on W. and 1 on E. edge, witnessed
by a mound of stone to the north, from which a spruce
14 ins. dia. brs. N. 9° W., 11 lks. dist. (new tree),
marked T 11 S R 19 W S 34 B T, and a spruce 12
ins. dia. brs. N. 53° E., 12 lks. dist. (new tree) mark-
ed T 11 S R 19 W S 35 B T.
- At a point 11 lks. E. of the cor. there is a spruce 10
ins. dia., faintly marked "B T" on the bark.

Oct. 16, 1914.

Blank

Page

South Boundary of T. 11 S., R. 19 W.

(Resurvey)

Chains

From a point 13 lks. N. of the cor. of secs. 34 and 35, I continue on a random tangent line, which here bears S. 89° 59' E., setting temp. $\frac{1}{4}$ and section corners, and at offsets south of this line of 10, 8, 6 and 3 lks. respectively, set temp. $\frac{1}{4}$ and section corners, the last one at

158.58 (measuring from starting point) Intersects the random east boundary of the township run south, 401.12 chs. S. of the cor. of secs. 1, 6, 7 and 12 on the E. bdy. of the tp.

Oct. 19, 1914.

As this falling corresponds to more than 21' of arc from a cardinal course, I establish the S. bdy. of the Tp. on an E. and W. course, and at this intersection, set a granite stone 32x18x5 ins. on a rock ledge in a mound of stone 4 ft. base, 2 ft. high, marked with 6 notches on each edge, for the cor. of Tps. 11 and 12 S., Rgs. 18 and 19 W., from which -

A pine 24 ins. dia. brs. N. 45° 00' E., 114 lks. dist.
Mkd. T 11 S R 18 W S 31 B T.

A spruce 10 ins. dia. brs. S. 7° 45' E., 35 lks. dist.
Mkd. T 12 S R 18 W S 6 B T.

A Quadruple pine 3 ft. dia. brs. S. 51° 30' W., 27 lks. dist.
Mkd. T 12 S R 19 W S 1 B T.

A pine 12 ins. dia. brs. N. 30° 30' W., 45 lks. dist.
Mkd. T 11 S R 19 W S 36 B T.

U.S.C. & G.S. observing cabin on Ibapah Peak brs. N. 22° 44' E., $\frac{3}{4}$ of a mile dist.

(After diligent search, no trace of the old tp. cor. was found).

Oct. 20, 1914.

From the above township corner, I run

West on a true line along the S. bdy. of Sec. 36.

Through dense pine, spruce and pinon timber, beginning very abrupt ascent.

Blank

Page

South Boundary of T. 11 S., R. 19 W.

(Resurvey)

Chains

- 3.14 Ascent becomes much less abrupt.
- 34.70 Top of spur to south; descend to
- 36.80 Hollow, course S. (100 ft. below spur).
- 40.00 Set a granite stone 16x7x7 ins. 10 ins. in hard ground, for the $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 36, marked $\frac{1}{4}$ on N. face, from which a pinon 16 ins. dia. brs. N. 46° 20' E., 19 lks. dist., mkd. $\frac{1}{4}$ S 36 B T, and a pinon 16 ins. dia. brs. N. 39° 45' W., 71 lks. dist., mkd. $\frac{1}{4}$ S 36 B T.
- Ragerhold $\frac{1}{4}$ sec. cor. bet. secs. 1 and 36 brs. S. 49° E. 29 lks. dist., and is a granite stone 20x8x16 ins. set 8 ins. in the ground, mkd. $\frac{1}{4}$ on N. and set in a mound of stone. I destroy this cor.
- 48.60 Top of ridge, brs. N. and S., 200 ft. above corner. Descend.
- 54.00 Hollow, drains S. Ascend.
- 61.20 Top of main divide between 15-mile Creek and Granite Creek, brs. NE. and SW. Descend to
- 69.00 Level bench, brs. N. and S. Find no trace in this vicinity of the W.C. to the sec. cor. said to have been set by Rager. Thence descend to
- 80.00 Set a granite stone 24x12x5 ins. in a mound of stone, for the cor. of secs. 35 and 36, and also for angle point on the Goshute Indian Reservation boundary, marked with 1 notch on E., 5 notches on W., and G I R on NW., from which a spruce 15 ins. dia. brs. N. 29° W., 41 lks. dist., marked T 11 S R 19 W S 35 A P G I R B T. and a spruce 40 ins. dia. brs. N. 20° E., 56 lks. dist. marked T 11 S R 19 W S 36 A P G I R B T.

Land, rough and mountainous.

Soil, rocky, 4th rate.

Timber, pine, spruce and pinon..

The cor. of secs. 35 and 36 is about 600 ft. below the top of the ridge on the W. slope of mountain.

--	--	--	--

Blank

Page

--	--	--	--

South Boundary of T. 11 S., R. 19 W.

(Resurvey)

Chains

West on a true line along the S. bdy. of sec. 35.
Descending steep W. side of mountain, through heavy
growth of spruce, pinon, pine and aspen timber, and
very large granite boulders.

28.00 Foot of steep descent about 1000 ft. below corner.

31.30 Path of snow slide brs. N. 20° W.

Thence broken, but much more gradual descent

40.00 Set a granite stone 20x10x8 ins. 14 ins. in the ground,
for $\frac{1}{4}$ sec. cor. on S. bdy. of sec. 35, marked $\frac{1}{4}$ on N.
face, from which a spruce 10 ins. dia. brs. N. 3 $\frac{1}{2}$ ° W.,
2 lks. dist., mkd. $\frac{1}{4}$ S 35 B T, and a spruce 20 ins.
dia. brs. N. 36° E., 17 lks. dist., mkd. $\frac{1}{4}$ S 35 B T.

Cor falls on NW. slope.

56.00 Spur to NW. Descend.

I make thorough search in this vicinity for the W.C. to
the $\frac{1}{4}$ sec. cor. as described by Rager, but find no
trace thereof.

78.47 Spruce 10 ins. dia. on line. I mark it with 2 notches on
E. and W. sides.

78.58 The cor. of secs. 34 and 35, previously described.

Land, mountainous, sloping to W.
Soil, 4th rate, covered with rocks and boulders.
Timber, spruce, aspen, pinon, pine and mahogany; under-
growth of buckbrush.

Oct. 21, 1914.

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n.

From the cor. of Tps. 11 and 12 S., Rgs. 18 and 19 W.,
previously described, I run

North on a true line bet. secs. 31 and 36.

Ascending over very broken slope to SE., through thick

Blank

Page

East boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

growth of spruce, pinon, and pine timber, and over huge rock ledges and boulders.

35.00 Leave timber, brs. E. and W. Ascend over boulders.

40.00 Set a granite stone 24x12x6 ins. in a mound of stone, marked $\frac{1}{4}$ S on W. Cor. falls in large area of slide rock.

Ascend very steep slope to S., over slide rock.

45.50 Trail to Ibapah Peak from Queen of Sheba mine, brs. NE, and SW.

46.96 Top of ridge, 300 ft. above the $\frac{1}{4}$ sec. cor.

Descend over precipitous N. slope, crossing knife edge ridges, sloping ledges and between rock pinnacles almost unsurveyable on W. side of Ibapah Peak at head of Steves Canyon.

79.80 Ravine, in which a snowslide runs every season, course W.

80.00 True point for cor. of secs. 25, 30, 31 and 36 falls on unsafe ground, therefore 15 lks. N., at

80.15 Set a granite stone 18x12x6 ins. in a mound of stone, for W.C. to the cor. of secs. 25, 30, 31 and 36, which is also an angle point on the reservation boundary, marked 1 notch on S., 5 notches on N., and A P G I R on W., and W O on S., from which -

A spruce 18 ins. dia. brs. N. 51° 30' E., 30 lks. dist.
Mkd. T 11 S R 18 W S 30 W C A P G I R B T.

A spruce 6 ins. dia. brs. S. 60° 30' E., 28 lks. dist.
Mkd. T 11 S R 18 W S 31 W C A P G I R B T.

A spruce 10 ins. dia. brs. S. 41° 30' W., 7 lks. dist.
Mkd. T 11 S R 19 W S 36 W C A P G I R B T.

A spruce 18 ins. dia. brs. N. 59° 30' W., 7 lks. dist.
Mkd. T 11 S R 19 W S 25 W C A P G I R B T.

Land, rough and mountainous.
Soil, none; rocks and boulders.
Timber, spruce and pine.

North bet. secs. 25 and 30, along the E. bdy. of the Goshute Indian Reservation.

Over excessively rough mountainous country of granite pinnacles and ledges, through scattered spruce timber, ascending.

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n.

Chains

- 0.15 The W.C. to the cor. of secs. 25, 30, 31 and 36, which is also an angle point on the reservation boundary.
- 20.90 Flag for triangulation from North.
- 21.60 Top of high spur to West. About 100 yards SE. of this point is a very prominent granite pinnacle and 300 yards NW. is a very prominent lone pinnacle, the first of several met with in ascending from the valley to the east. As this is a very prominent point and on line, I erect a stone monument 3 ft. base, and 3 ft. high.
- Haystack peak brs. N. $40^{\circ} 36'$ E.
- Thence descend over very precipitous rock ledges, nearly impassable at any time, and now snow-covered; scattered spruce trees growing from rock crevices.
- 40.00 The $\frac{1}{4}$ sec. cor. bet. secs. 25 and 30, which is a cross (X) cut on the foot of the middle of the north edge of a sloping granite ledge near the middle of track of a snowslide, and 300 ft. NW. of lower end of rock precipice, also 300 ft. SE. of the N. edge of timber. " $\frac{1}{4}$ " is marked above the cross and "S" below it, from which a spruce 14 ins. dia. brs. N. 85° E., 234 lks. dist., marked $\frac{1}{4}$ S 30 B T. This tree falls in line of snowslide but is protected therefrom by a rock ledge on upper side thereof. A spruce 15 ins. dia. brs. S. 63° W., 168 lks. dist., marked $\frac{1}{4}$ S 25 B T, on west edge of same snowslide.
- 45.00 Foot of steep descent. Thence through heavy pine and spruce timber, and over enormous boulders, ascending to cor.
- 80.00 The cor. of secs. 19, 24, 25 and 30, which is a cross (X) cut on the NW. face of a sloping stone 30x30x18 ins. which rests upon a flat boulder 10x6x4 ft., also marked G I R on W. (for Goshute Indian Reservation) from which a spruce 20 ins. dia. brs. N. 24° E., 50 lks. dist.
Mkd. T 11 S R 18 W S 19 G I R B T.
- A pinon, 14 ins. dia. brs. S. $55\frac{1}{2}^{\circ}$ E., 23 lks. dist.
Mkd. T 11 S R 18 W S 30 G I R B T.

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n.

Chains

A spruce 10 ins. dia. brs. S. 28° 45' W., 29 lks. dist.
Mkd. T 11 S R 19 W S 25 G I R B T.

A double pine 15 ins. dia. brs. N. 20° 45' W., 17 lks. dist.
Mkd. T 11 S R 19 W S 24 G I R B T.

Land, rough and mountainous.
Soil, mostly rocks and boulders, 4th rate.
Timber, spruce, pine and pinon.

North bet. secs. 19 and 24, along the E. bdy. of the
Goshute Indian Reservation.

- 8.89 Point for triangulation on summit of bare rocky ridge
bearing N. 50° W. and S. 50° E., 200 ft. above corner,
and covered with immense boulders.
Haystack Peak brs. N. 73° 29' E. Descend.
- 36.41 Haystack Peak brs. S. 87° 30' E., Descend.
- 40.00 Set a granite stone 20x12x5 ins. 10 ins. in hard ground,
for $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24, marked $\frac{1}{4}$ S on W.
face, from which a spruce 16 ins. dia. brs. N. 24° E.,
29 lks. dist., marked $\frac{1}{4}$ S 19 B T, and a spruce 5 ins.
dia., brs. N. 61 $\frac{1}{2}$ ° W., 34 lks. dist., marked $\frac{1}{4}$ S 24 B T.
- 40.91 Pine 18 ins. dia. on line, marked with 2 notches on front
and back.
- 45.00 Descend gradually over large boulders to
- 48.00 Descend steep bank through dense pine and spruce to
- 48.65 Shearing Corral Camp Creek, 300 ft. below cor., 12 lks.
wide, 4 ins. deep, course N. 65° W. Ascend steep bank.
- 48.73 Top of bank; thence nearly level.
- 54.30 Begin ascent.
- 61.58 Top of spur, 300 ft. above creek; descend.
- 66.50 Leave dense spruce, pine and aspen, brs. SE. and W.
Thence scattered spruce and malicgany.
- 72.50 Creek, 5 lks. wide, 3 ins. deep, course W.
- 76.40 Wash, 6 ft. deep in canyon, brs. W.
- 80.00 Set a granite stone 25x9x5 ins. 16 ins. in the ground for
the cor. of secs. 13, 18, 19 and 24, marked with 3 not-
ches on N. and 3 notches on S., and G I R on W.

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n.

Chains

Build a mound of stone 5 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.

(No trees within limits).

Cor. is 100 ft. above canyon bed.

Land, rough and mountainous.

Soil, rocky, 4th rate.

Timber, spruce, pine, aspen and mahogany.

Oct. 22, 1914.

North bet. secs. 13 and 18, along the E. bdy. of the Goshute Indian Reservation.

Through mahogany, pine and aspen, and dense undergrowth of rose bushes, willows and manzanita, ascending.

15.20 Haystack Peak brs. S. $51^{\circ} 45'$ E.

15.60 Top of ridge or spur, brs. E. and W., 500 ft. above cor. Thence steep descent, through dense pine and aspen.

40.00 Set a granite stone 20x8x5 ins. 12 ins. in hard ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, marked $\frac{1}{4}$ S on W. face, from which a spruce 9 ins. dia. brs. S. 85° E., 16 lks. dist., marked $\frac{1}{4}$ S 18 B T, and a spruce 14 ins. dia. brs. S. 65° W., 4 lks. dist., marked $\frac{1}{4}$ S 13 B T.

This cor. falls on hillside 200 yards S. 30° W. of a double top rock pinnacle 500 ft. high, north of creek junction, also 1 ch. south of creek and trail, each of which bear from SE. to NW.

Begin steep descent from cor.

41.04 Trail, course S. 60° E. and N. 60° W.

41.20 Creek, 15 lks. wide, 2 to 4 ins. deep, clear mountain water, rapid fall, course NW.

44.10 Small stream of hollow, 10 lks. wide, 2 to 4 ins. deep, course W. Begin abrupt ascent.

47.20 Top of rock ledge, 100 ft. above creek; thence less abrupt ascent to

54.10 Top of ridge, 400 ft. above cor., brs. E. and W. Descend abruptly.

Plaintiff's counsel submitted that the above should be deleted from the complaint.

26. 1944-1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 235

Page

Verfahren zur Gewinnberechnung

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n

Chains

- 60.00 Canyon, drains W. Ascend.
- 66.00 Top of ledge, 175 ft. above canyon.
- 73.10 Canyon, drains W. Ascend through dense undergrowth of sage, buck brush, mahogany, aspen, and scattered pine and spruce.
- 80.00 Set a granite stone 36x14x6 ins. 2 ft. in a mound of rock, for the cor. of secs. 7, 12, 13 and 18, marked with 2 notches on N. and 4 notches on S., and G I R on W., from which a mahogany 8 ins. dia. brs. S. 3° 15' E., 106 lks. dist., marked T 11 S R 18 W S 18 G I R B T, and a spruce 8 ins. dia. brs. S. 20° 45' W., 131 lks. dist., marked T T 11 S R 19 W S 13 G I R B T.

Land, rough and mountainous.

Soil, rocky, 4th rate.

Timber, spruce, aspen and mahogany.

North bet. secs. 7 and 12, along the E. bdy. of the Goshute Indian Reservation.

Ascending, over very rough, mountainous land, covered with mahogany and aspen timber, and dense undergrowth of manzanita and rose bushes.

- 16.00 Top of spur, to SW.
- 17.38 Haystack Peak, brs. S. 28° 20' E. Descend.
- 18.00 Hollow, 100 ft. deep, course NW. Ascend.
- 23.00 Top of ridge, brs. E. and W. Descend through aspen timber.
- 40.00 True point for $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, falls on a 100 ft. high granite ledge, sloping 60° to NW. and is therefore inaccessible.
- 40.46 On foot of same ledge, I mark a cross (x) with "W C" above it and $\frac{1}{4}$ S below it, on underside thereof 4 ft. above ground and 20 ft. N. of a mossy stratification in the ledge, from which an aspen 5 ins. dia. brs. N. 8° E., 24 lks. dist., marked $\frac{1}{4}$ S 7 B T W C, and an aspen 6 ins. dia. brs. S. 70° W., 36 lks. dist., marked $\frac{1}{4}$ S 12 W C B T.

Blank

Page

East Boundary of T. 11 S., R. 19 W.

a portion of which is E. bdy. of the Goshute Indian Res'n.

Chains

- At this point I deflect N. 4° E., 546 lks. to
 45.92 A point 38 lks. E. of line, and 5.46 chs. N. of ^{witness} cor.,
 and thence I deflect $6^{\circ} 45'$ westward or N. $2^{\circ} 45' W.$, 785
 lks., which brings me back to line at
 53.77 End of stadia measurement between two granite pinnacles
 50 ft. high. Descend very steep N. slope, through spruce
 and pine and aspen, to
 69.62 Drain in hollow, course NW. Ascend through aspen, rose
 bushes and willows.
 70.20 Top of ascent, thence nearly level.
 73.45 Begin steep descent, through mahogany and spruce, and
 dense undergrowth of willow and rose.
 81.12 The cor. of secs. 1, 6, 7 and 12, previously described.
 Land, very mountainous.
 Soil, rocky, 3rd and 4th rate.
 Timber, mahogany, aspen and spruce; and dense undergrowth
 of willow, manzanita and rose.

Oct. 24, 1914.

Blank

Page

Retracement of the 2nd Standard Parallel South in R. 19 W.,
through Sec. 32 and the $W\frac{1}{2}$ of Sec. 33,
being a portion of the N. bdy. of the Goshute Indian Res'n.

Chains

From the random intersection point 4 lks. E. of the C.C.
T. 11 S., R. 19 W.,
of secs. 4 and 5 (described in subdivision notes) I
deflect to the East an angle of $89^{\circ} 53'$ from my back-
sight and run S. $89^{\circ} 53'$ E. along line of wire fence
with measurements from the closing cor.

29.40 Intersect the standard $\frac{1}{4}$ sec. cor. of sec. 33, which is
a granite stone 6x8x6 ins. above ground, marked $\frac{1}{4}$ on N.
No evidence of pits or mound.

- - - - -

Returning to the C.C. of secs. 4 and 5, thence I run
N. $89^{\circ} 53'$ W. prolonging my random line westward, retrac-
ing the remaining portion of the $W\frac{1}{2}$ of the S. bdy. of
Sec. 33.

10.00 Set temp. stake.

10.61 Intersect the S.C. of secs. 32 and 33.

Returning to the standard $\frac{1}{4}$ sec. cor. of sec. 33,
thence I run

N. $89^{\circ} 53'$ W. on a true line along fence, on the S. bdy.
of Sec. 33 ($W\frac{1}{2}$), which is also the N. bdy. of the Gosh-
ute Indian Reservation.

Over level land, through sage brush.

29.40 The C.C. bet. secs. 4 and 5, which is a quartzite stone
8x8x8 ins. above ground, marked with 2 notches on the
W. and 4 notches on the E., and C C on S., with a mound
of stone to the S. To further perpetuate this cor.,
I set an iron post 3 ft. long, 3 ins. dia., 24 ins. in
the ground, south and alongside of the stone, with brass
cap stamped

T 10 S R 19 W S 33 in N. half
T 11 S S 5 in SW,
R 19 W S 4 in SE.
C C G I R 1914 in S.

Blank

Page

Retracement of the 2nd Standard Parallel South in R. 19 W.,
through Sec. 32 and the $W\frac{1}{2}$ of Sec. 33,
being a portion of the N. bdy. of the Goshute Indian Res'n

Chains

40.01 The S.C. of secs. 32 and 33. which is a granite stone
8x6x3 ins. above ground firmly set, marked with 4 not-
ches on the E. and 2 notches on the W. No evidence of
pits or mound.

Thence I run

N. $89^{\circ} 53'$ W. on a random line retracing the S. bdy. of
Sec. 32, and setting temp. stakes at intervals of 10.00
chs., or at 9.39, 19.39, 29.39, 39.39, 49.39, 59.39
and 69.39 chs.

39.99 Intersect the Standard $\frac{1}{4}$ sec. cor. of sec. 32.

69.75 Intersect the C.C. of secs. 5 and 6, T. 11 S., R. 19 W.,
which is a quartzite stone 8x6x8 ins. above ground,
firmly set at corner of wire fence bearing S. and E.,
marked C C on S., with 1 notch on W. and 5 notches on E.
set in a mound of stone.

79.98 The S.C. of secs. 31 and 32.

Returning to the C.C. of secs. 4 and 5, thence I run
N. $89^{\circ} 53'$ W. on a true line along the N. bdy. of sec. 5,
which is also the N. bdy. of the Goshute Indian Res'n.

10.05 The N. bdy. of sec. 5 is 80.36 chs., therefore at propor-
tional distance, set an iron post 36 ins. long, 1 inch
in dia., 26 ins. in the ground, for $1/64$ sec. cor. on
the N. bdy. of sec. 5, with brass cap stamped
 $1/64$ C C 1914 in S.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of
post.

10.61 The S.C. of secs. 32 and 33, previously described.

20.09 At proportional distance, set an iron post 36 ins. long,
1 inch in dia., 26 ins. in the ground, for $1/16$ sec.
cor. on N. bdy. of sec. 5, with brass cap stamped
C C $1/16$ S 5 1914 in S.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of
post.

Blank

Page

Retracement of the 2nd Standard Parallel South in R. 19 W.,
through Sec. 32 and the W $\frac{1}{2}$ of Sec. 33,
being a portion of the N. bdy. of the Goshute Indian Res'n

Chains

30.13 At proportional distance, set an iron post 36 ins. long,
1 inch in dia., 26 ins. in the ground, for 1/64 sec.
cor. on the N. bdy. of sec. 5, with brass cap stamped
C C 1/64 1914 in S.

Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of
post.

40.18 At the middle point on the N. bdy. of sec. 5, set an iron
post 36 ins. long, 1 inch in dia., 26 ins. in the
ground, with brass cap stamped

C C $\frac{1}{4}$ S 5 1914 in S.

Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of
cor.

80.36 Intersect the C.C. of secs. 5 and 6, which is a quart-
zite stone 8x6x8 ins. above ground, firmly set at cor-
ner of wire fence, bearing S. and E., marked C C on S.,
with 1 notch on W. and 5 notches on E., set in a mound
of stone. To further perpetuate this cor., I set an
iron post 3 ft. long, 3 ins. dia., 24 ins. in the
ground, east and alongside of the stone, with brass cap
stamped

T 10 S R 19 W S 32 in N.

T 11 S S 6 in SW.

R 19 W S 5 in SE.

C C G I R 1914 in S.

This post is set E. of the stone because the cor. post of
a strongly constructed wire fence falls immediately
north and adjacent thereto.

90.59 The S.C. of secs. 31 and 32, previously described.

Nov. 25, 1914.

Blank

Page

Resurvey of

North Boundary of T. 13 S., R. 18 W.

Chains

Oct. 23, 1914. At my camp near the N. bdy. of Sec. 20, T. 12 S., R. 19 W., Lat. $39^{\circ} 46' N.$, Long. $113^{\circ} 57' W.$, I observe Polaris at Eastern Elongation by my watch, set at local mean time, at 5h 23m p.m., and mark the point thus determined on the ground, 5.00 chs. N. of my station. I immediately lay off the azimuth of Polaris at elongation $1^{\circ} 29.6'$ to the westward and mark this point by a flag which is also visible from the summit of Johnson Peak, about two miles south thereof. I observe this flag from several points and also test my solar thereon whenever opportunity offers.

The point for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W., falls in an almost inaccessible place on a very broken craggy quartzite mountain with fissures and ledges of enormous size, and as my survey is to be initiated from this cor., I utilize the rejected survey of T. 12 S., R. 19 W., made by Harry A. Rager, as an aid in determining the approximate location thereof.

From a point on a prominent ridge, which from Rager's survey of T. 12 S., R. 19 W. bears evidence of being about 50.00 chs. to the westward of the SE. cor. thereof, I observe Polaris at Eastern Elongation, on the afternoon of Oct. 26, at 5h 16.8m P.M. by my watch which is set at correct local mean time. The true azimuth of Polaris is $1^{\circ} 29\frac{1}{2}'$ to the East. I therefore lay off the difference between $90^{\circ} 00'$ and $1^{\circ} 29\frac{1}{2}'$, or $88^{\circ} 30\frac{1}{2}'$ to the East, which gives a true East course and checks the bearing of a line which brought me to this point.

Oct. 26, 1914.

Thence I run

East on a random line bet. secs. 1 and 36, Tps. 12 and 13 S., R. 19 W., and at

Blank

Page

Resurvey of

North Boundary of T. 13 S., R. 18 W.

Chains

17.55 Falls 2.03 chs. S. of a slate stone, loosely set in a mound of stone, same being the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 36, of the survey (rejected) by Harry A. Rager, which corner I destroy.

25.01 Top of spur to N. Impracticable to chain further. Therefore I set a flag "C" at this point, also a flag "A" on line, from which flag "B" brs. N. $27^{\circ} 41'$ E., a distance of 9.01⁴ chs., which is the longest base I can obtain. From flag "B", flag "C" brs. S. $73^{\circ} 22'$ W. I measure the angle at "C" between "A" and "B" and find it to be $16^{\circ} 38'$. Therefore, in the triangle:

$$A = 16^{\circ} 38'$$

$$B = 45^{\circ} 41'$$

$$C = 117^{\circ} 41'$$

$$\text{The required distance } AC = \frac{\sin 45^{\circ} 41' \times 9.01^4}{\sin 16^{\circ} 38'} =$$

22.53 chs. which added to 25.01 chs. =

47.54 Top of ridge, brs. NE. and SW. Descend very abruptly.

57.55 2.03 chs. N. of this point, set a temp. stake for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W., 40.00 chs. E. of the position it should be as referred to Rager's $\frac{1}{4}$ sec. cor. bet. secs. 1 and 36.

Oct. 27, 1914.

I make a thorough search for this tp. cor. on Oct. 27, 28, and 29, but fail to find any trace thereof, and the locality is so broken with craggs, fissures and pinnacles of quartzite rock that I doubt if the corner has ever been set on either of the two previous surveys thereof, which supposition would seem to be further strengthened by a disagreement of the topography as given by Rager and Bailey with that obtained by me, although the alignment seems to indicate a line was projected through by Rager. The topography which relates to Birch Creek was over a mile in error in distance in the Bailey survey, and is

Blank

Page

Resurvey of

North Boundary of T. 13 S., R. 18 W.

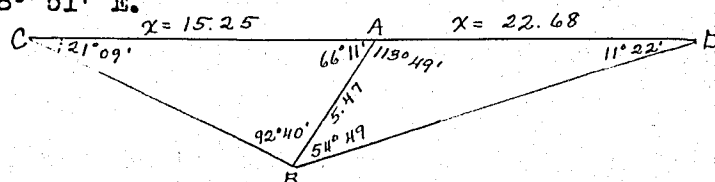
Chains

nearly half a mile in error in distance in the Rager survey.

From a point 2.03 chs. S. of the temp. stake set for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W., I continue East on a random line bet. secs. 6 and 31.

3.95 Set a flag "C" at point for triangulation.

At points on line ahead, I set a flag "A" on a rocky ridge west of Birch Creek, and a second flag "D" on rocky ridge east of Birch Creek. From "C" a flag "B" brs. S. $68^{\circ} 51' E.$



I measure very carefully the base A B, 5.47 chs., which is as long as can possibly be obtained, and the angles at "A" and "B" with similar care are found to be $66^{\circ} 11'$ and $92^{\circ} 40'$ respectively.

The required distance is then equal to $\frac{\sin 92^{\circ} 40' \times 5.47 \text{ chs.}}{\sin 21^{\circ} 09'} = 15.25 \text{ chs.}$

$3.95 + 15.25 = 19.20$ to Station A on line.

Oct. 29, 1914.

At this point line descends into Birch Creek Canyon about 1000 ft. lower and with same base I make a second triangulation to the point "D" on line on E. side of the canyon, the angles being as follows:

"D" $11^{\circ} 22'$ "A" $113^{\circ} 49'$ "B" $54^{\circ} 49'$

The required distance "A D" = $\frac{\sin 54^{\circ} 49' \times 4.70 \text{ chs.}}{\sin 11^{\circ} 22'}$

22.68 chs. , and the total distance to this point is then $19.20 + 22.68$, or

41.88 Point of triangulation on E. side of Birch Creek.

Set temp. stake for W.C. to $\frac{1}{2}$ sec. cor. bet. secs. 6 and 31.

No trace of the old cor. is found. As the $\frac{1}{2}$ sec. cor. bet. secs. 6 and 31 falls in an inaccessible place and in no

Blank

Page

Resurvey of
North Boundary of T. 13 S., R. 18 W.

Chains	way answers to the topography as given in either of the previous surveys, I consider it as not having been set and made no search therefor.
80.00	Set temp. stake for the cor. of secs. 5, 6, 31 and 32. ----- Continue Eastward on same random line bet. secs. 5 and 32, which here has a bearing of S. 89° 59' E.
33.66	Falls 63 lks. S. of a shale rock 15x7x4 ins., above ground firmly set, and marked $\frac{1}{4}$ on N. face, with a mound of stone to the N., which I take to be the cor. bet. secs. 5 and 32 on the N. bdy. of Tp., but which now refers to sec. 5 only. As a further confirmation however, I continue East on my random line, which now has a bearing of S. 89° 58' E. and at
39.77	Falls 60 lks. S. of the cor. of secs. 4, 5, 32 and 33, as reestablished by Harry A. Rager, which cor. now refers to secs. 4 and 5 only.

Resurvey of
West Boundary of T. 13 S., R. 18 W.

From a point 10 lks. N. of the cor. of secs. 7, 12, 13 and 18, (which is a quartzite stone 8x40x10 ins. above ground, loosely set, marked with 4 notches on the S. and 2 notches on the N., and witnessed by a mound of stone to the east,) on my west random line which here has a bearing of S. 89° 58.5' W., I deflect an angle from the backsight of 89° 58.5' to the left and mark the direction thus determined by a flag on a summit 11 chs. N. of this station.

Blank

Page

Resurvey of

West Boundary of T. 13 S., R. 18 W.

Chains

Oct. 31, 1914. I observe Polaris as follows:

At 4h 50m P.M. in the afternoon, the sky being very clear, I make a pointing on the star, the horizontal circle of the instrument reading $180^{\circ} 00'$.

As the star is practically at eastern elongation, I lay off the azimuth thereof $1^{\circ} 29\frac{1}{2}'$ W. on the horizontal circle, and the direction thus determined agrees with the flag on summit 11.00 chs. N. of cor., previously set.

Thence I run (with measurement from the cor.)

North on a random line bet. secs. 7 and 12.

40.91 Falls 56 lks. E. of the $\frac{1}{2}$ sec. cor. bet. secs. 7 and 12.

Returning to the cor. of secs. 7, 12, 13 and 18,
thence I run

N. $0^{\circ} 47'$ W. on a true line bet. secs. 7 and 12 ($S\frac{1}{2}$).

Through low undergrowth of sage brush and shade-scale, ascending over rough land.

11.30 Begin abrupt descent.

14.30 Wash in ravine 100 ft. deep, drains SE. Ascend abruptly.

18.00 Ascend gradually.

30.00 Begin descent.

35.00 Main drain, course SE. Ascend gradually.

40.91 The $\frac{1}{2}$ sec. cor. bet. secs. 7 and 12, which is a quartzite stone $9 \times 5 \times 10$ ins. firmly set, marked $\frac{1}{2}$ on W., witnessed by a mound of stone to the west.

Thence

North on a random line bet. secs. 7 and 12 ($N\frac{1}{2}$).

On offset 56 lks. East

41.28 Falls 126 lks. E. of the cor. of secs. 1, 6, 7 and 12.

Returning to the $\frac{1}{2}$ sec. cor. bet. secs. 7 and 12,
thence I run

N. $0^{\circ} 58'$ W. on a true line bet. secs. 7 and 12 ($N\frac{1}{2}$).

Ascending over rough mountainous country, through sage

Blank

Page

Resurvey of
West Boundary of T. 13 S., R. 18 W.

Chains

and greasewood underbrush with scattered mahogany and spruce, and large boulders.

29.34 Falls 2 lks. E. of a quartzite stone 8x6x8 ins. above ground, marked with 5 notches on S. and 1 notch on N. edge, and witnessed by a mound of stone to the W. As this does not agree at all with the original description in distance or size of stone, I conclude that it is an erroneous reestablishment of the cor. of secs. 1, 6, 7 and 12, or a closing cor., made by Rager while making his survey of the township to the west (which was rejected) although the stone does not bear the letters C O. As I am not sure however, and have not the notes of this rejected survey, I leave the corner undisturbed.

41.23 The cor. of secs. 1, 6, 7 and 12, which is a quartzite stone 6x12x12 ins. above ground, firmly set, although only 6 ins. thereof is in the ground, marked with 5 notches on the S. and 1 notch on the N., witnessed by a mound of stone to the east. As this stone has evidently been set many years, I conclude it is the original corner.

North on a random line bet. secs. 1 and 6.

18.00 Foot of ridge, bearing N. 20° W. and S. 20° E. From here north the country is so broken and rough that it is unsurveyable without offsetting westward. It is quite apparent that the line has never been carried north from here, and even if it had been the $\frac{1}{4}$ sec. cor. would now be lost in the extremely rugged country, as is the township cor., for which I have already searched three days without results.

I therefore offset as follows from the true line:

West 51.50 chs., thence

North, 62.12 chs. to a point on the E. random line where

TO: DIRECTOR
FROM: SAC, NEW YORK
SUBJECT: [REDACTED]

			1/14/68
--	--	--	---------

Blank

Page

		SEARCHED	INDEXED	FILED	1/14/68
		FBI - NEW YORK			

Resurvey of
West Boundary of T. 13 S., R. 18 W.

Chains

the meridian observation was taken on Oct. 26.

Thence East on a random line, 51.50 chs. to a point which will be on the prolongation of the range line bet. Rgs. 18 and 19 W., T. 13 S.

As the random line east had a falling of 60 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 32, as reestablished by Rager, the true point for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W. will be North 60 lks. less the difference in offsets at these two points or 57 lks.

I now measure the angle between my backsight and random run East, finding same to be 90° , which checks the direction of my line.

- - - - -

Returning to the cor. of secs. 1, 6, 7 and 12, on the W. bdy. of the Tp., thence I run

North, 18.00 chs. - to foot of impassable cliff; thence West, 51.50 " ; thence

North, 62.69 " ; thence

East, 51.50 " to true point for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W., which is 80.69 chs. N. of the cor. of secs. 1, 6, 7 and 12.

As this point falls in unsafe place for the tp. cor., I set a W.C. as follows: Cut a cross on a rock ledge 15 lks. West of the true point, marked with 6 notches on N., S., E. and W., from which

A pinon, 12 ins. dia. brs. S. $17\frac{1}{2}^{\circ}$ E., 50 lks. dist.
Mkd. T 13 S R 18 W S 6 W C B T.

A pinon, 6 ins. dia. brs. S. 5° W., 20 lks. dist.
Mkd. T 13 S R 19 W S 1 W C B T.

A pinon, 10 ins. dia. brs. N. $76^{\circ} 30'$ W., 8 lks. dist.
Mkd. T 12 S R 19 W S 36 W C B T.

West twin high rocky point N. of Birch Creek Canyon brs. N. $2^{\circ} 16'$ W., 1 mile dist.

East Dome rock brs. S. $26^{\circ} 32'$ E., 1 mile dist.

Rock mound 3 ft. base, 4 ft. high, brs. S. 63° E., 14 lks. dist.

(No other tree available)

Blank

Page

Resurvey of
West Boundary of T. 13 S., R. 16 W.

Chains

The ledge on which the cross is cut is at the foot of a ledge 6 ft. high, from a crevice of which grows the NW. bearing tree. 10 ft. east of this point the ledge falls off 50 ft. into a slide rock branch at a point about 10 chs. N. 80° W. of its junction with the main canyon of slide rock.

Nov. 1, 1914.

Resurvey of
North Boundary of T. 13 S., R. 16 W.

The true point for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W. falls 203 lks. minus 57 lks. which equals 146 lks. South and 6.79 chs. West of the temporary point established on my random line for the tp. cor. (For random line see pages 19 to 22 incl.)

Thorough search in this locality without result further confirms my belief that this cor. has never been set. The distance from the true point for the Tp. cor. East to the $\frac{1}{2}$ sec. cor. bet. secs. 5 and 32, which was re-established by Rager and now refers to sec. 5 only, is $6.79 + 3.95 + 15.25 + 22.68 + 38.12 + 33.66$, which equals 120.45 chs. The distance bet. these points according to the accepted survey is 120.00 chs., therefore setting corners at proportional distances gives 40.15 chs. for each half mile.

From the true point for the cor. of Tps. 12 and 13 S., Rgs. 18 and 19 W., which is .15 lks. East of the W.C., I run
East on a true line bet. secs. 6 and 31.

Blank

Page

Resurvey of

North Boundary of T. 13 S., R. 18 W.

Chains

Over very rough mountainous country, - quartzite ledges usually about 70° from horizontal, - often more than 100 ft. high, immense boulders and slide rock; through scattered pinon and mahogany timber.

.15 Descend over nearly perpendicular ledge 50 ft. high.

10.74 Top of rock ledge, descending into rocky canyon 600 ft. deep, bottom of which consists of huge boulders and slide rock, course NE.

25.99 Quartzite ridge, 1000 ft. high, brs. NE. from main mountain top 1500 ft. higher, one-half mile SE.

At this nearly inaccessible point on W. side of Birch Creek Canyon and about 1000 ft. above creek, it was necessary to again triangulate across the canyon of Birch Creek, the course of which is South at this point but soon turns S. 75° E.

40.15 Point for $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 6 falls in an inaccessible place in Birch Creek Canyon, course S.

43.67 Point of triangulation on N. side of Birch Creek Canyon, 400 ft. above the creek. I cut a cross on a rock ledge for W.C. to the $\frac{1}{4}$ sec. cor. on the N. bdy. of sec. 6, marked W C on W. Build a mound of stone to the S.

Thence over very broken and mountainous country with spurs and ledges of Quartzite rock and large detached boulders from the high mountains northward.

80.30 At proportional distance, set a quartzite stone $20 \times 12 \times 5$ ins. on rocky ground in a mound of earth and stone, marked with 5 notches on E. and 1 notch on W., for the cor. of secs. 5 and 6 only. Build a mound of stone 3 ft. base, 2 ft. high, W. of cor.

(No trees within limits).

Land, very rough and mountainous.
Soil, none. Slide rock and quartzite ledges, 4th rate.
Scattered pinon and mahogany timber on first half mile.

Nov. 1, 1914.

Blank

Page

Resurvey of

North Boundary of T. 13 S., R. 18 W.

Chains

East on a true line bet. secs. 5 and 32 ($W\frac{1}{2}$).

Over very rough mountainous country, with scattered cedar and mahogany.

6.00 Ascend.

20.70 Top of spur 800 ft. above Birch Creek, projects S. 15.00 chs.

27.90 Begin steep descent.

38.10 Bottom of hollow, 300 ft. deep, course S. for 15.00 chs., thence SE.

40.15 The $\frac{1}{4}$ sec. cor. bet. secs. 5 and 32, - a shale rock 15x7x4 ins., above ground, firmly set, and marked $\frac{1}{4}$ on N. face with a mound of stone to the N., which now refers to sec. 5 only.

Thence I run

S. $89^{\circ} 57'$ E. on a true line along the N. bdy. of sec. 5 ($E\frac{1}{2}$).

Over rough land, and large boulders.

6.00 Begin steep ascent.

20.05 Top of spur to S., 400 ft. above cor. Thence broken land.

22.40 Set flag for subsequent use in triangulation.

27.16 Descend abruptly to

37.76 Hollow, 300 ft. deep, drains S. 15 chs.; thence SE.

Ascend to

39.77 The cor. of secs. 4 and 5 only, which is a shale rock 8x8x6 ins. above ground, firmly set, marked with 4 notches on E. and 2 notches on W., and witnessed by a mound of stone to the West.

Land, rough and mountainous.

Soil, rocky, 4th rate.

Timber, scattered cedar and heavy undergrowth of sage brush on first half mile.

Nov. 2, 1914.

Blank

Page

South Boundary of T. 12 S., R. 19 W.

Nov. 2, 1914.

From the true point for the cor. of Tps. 12 and 13 S.,

Rgs. 18 and 19 W., previously described, I run

West on a true line bet. secs. 1 and 36.

Over very mountainous country, through scattered pinon,,
spruce, and mahogany timber.

0.15 The W.C. to the cor. of Tps. 12 and 13 S., Rgs. 18 and 19
W.

Begin abrupt ascent.

2.70 Top of ascent of about 35°; thence ascend gradually.

3.22 Top of ascent on spur to NE. from very high mountain one-
quarter of a mile south.

25.75 Spur to N. from high mountain south.

Descend through mahogany and pinon, to

33.21 Rager's old $\frac{1}{4}$ sec. cor. bet. secs. 1 and 36 brs. North
146 lks. dist. I destroy all trace thereof.

40.00 Set a quartzite stone 12x8x8 ins., 8 ins. in the ground,
for the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 36, marked $\frac{1}{4}$ S on
N., and build a mound of earth and stone N. of cor.

Cor. falls on S. edge of mahogany thicket and 1.00 ch. S.
of summit of ridge bearing E. and W., and 5.00 chs. W.
of saddle of same.

No trees available for B.T.s.

Thence ascend through thicket.

50.76 Top of ascent on rocky ridge brs. N. 80° E. and S. 80° W.
Leave mahogany thicket; thence scattered spruce.

69.80 Leave scattered timber; enter dense mahogany and pine,
brs. N. and S.

72.30 Leave dense timber, brs. N. and S.; thence scattered
spruce and pinon..

73.01 Falls 116 lks. S. of a quartzite stone 15x10x5 ins. in a
small mound of stone, marked with 5 notches on W. and 1
on E., which is Rager's old cor. of secs. 1, 2, 35 and 36,

Blank

Page

South Boundary of T. 12 S., R. 19 W.

Chains

and which I destroy.

- 80.00 Set a quartzite stone 15x10x5 ins. 10 ins. in the ground, for the cor. of secs. 1, 2, 35 and 36, marked with 1 notch on E. and 5 notches on W. edge. Build a mound of stone 2 ft. base, 1½ ft. high, W. of cor.

Land, rough and rolling.

Soil, 3rd and 4th rate.

Scattered timber of mahogany, spruce and pinon.

Nov. 2, 1914.

West on a true line bet. secs. 2 and 35.

Ascending through scattered pine, spruce, mahogany and pinon,, gradually becoming more dense.

- 36.30 Top of ridge brs. N. 80° E. and S. 80° W. Descend gradually through scattered pine and aspen timber.

- 40.00 Set a quartzite stone 20x10x6 ins., 14 ins. in the ground, for the ¼ sec. cor. bet. secs. 2 and 35, marked ¼ S on N., and build a mound of stone 2 ft. base, 1½ ft. high, N. of cor. A pine 16 ins. dia. brs. N. 54° W., 27 lks. dist., mkd. ¼ S 35 B T.

Cor. falls about 3.00 chs. NE. of saddle^{of} ridge, and 1.00 ch. N. of the ridge which is nearly E. and W.

Continue W. along N. side of ridge, gradually descending.

- 80.00 Set a quartzite stone 24x12x3 ins. 6 ins. in rocky ground in a mound of stone 3 ft. base, 2 ft. high, for the cor. of secs. 2, 3, 34 and 35, marked with 2 notches on E. and 4 on W. edge, from which -

A spruce 10 ins. dia. brs. N. 31° E., 69 lks. dist.
Mkd. T 12 S R 19 W S 35 B T.

A spruce 6 ins. dia. brs. S. 42° W., 110 lks. dist.
Mkd. T 13 S R 19 W S 3 B T.

A spruce 8 ins. dia. brs. N. 29° W., 73 lks. dist.
Mkd. T 12 S R 19 W S 34 B T.

No other tree within limits.

Land, rough and rocky.

Soil, 4th rate.

Scattered spruce, aspen, pinon, and mahogany timber.

Nov. 2, 1914.

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains

Nov. 6, 1914.

From a point on the random tangent line 19 lks. S. of the cor. of secs. 19, 24, 25 and 30, on the W. bdy. of T. 12 S., R. 19 W. (established when subdividing T. 12 S., R. 19 W., and described in notes of same) I deflect an angle of $89^{\circ} 57.1'$ from the east to the north, and run

North on a true line bet. secs. 19 and 24, which is also the W. bdy. of the Goshute Indian Reservation.

Over mountainous land, through dense spruce and pine timber and scattered mahogany, descending.

20.00 At this point, I observe Polaris at eastern elongation on the afternoon of Nov. 6, at 4h 33.5m by my watch, which is set at L.M.T. I then set off to the westward on the horizontal plate $1^{\circ} 29.5'$, the azimuth of Polaris, and the meridian thus established agrees with the foresight of the line upon which I am running.

Nov. 6, 1914.

Continue descent.

23.00 Bottom of canyon of W. fork of Johnson Creek, course NE., 600 ft. below the sec. cor. Ascend abruptly over S. slope of ridge; through dense growth of mahogany.

39.88 Rager's old $\frac{1}{4}$ sec. cor., - a limestone, properly marked, (size not noted) brs. West 2.23 chs. dist. I destroy all trace of this cor.

40.00 Set a limestone $18 \times 8 \times 5$ ins., 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24, marked $\frac{1}{4}$ S on W., from which a mahogany 16 ins. dia. brs. N. $29^{\circ} 30'$ E., 32 lks. dist., marked $\frac{1}{4}$ S 19 B T.

49.20 Top of ridge, brs. E. and W., 100 ft. above the $\frac{1}{4}$ sec. cor. Descend through sage brush.

71.00 Hollow, drains SE., 300 ft. below ridge. Ascend.

73.70 Enter scattered mahogany, brs. E. and W.

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains

- 80.00 Set a limestone 22x12x5 ins., 14 ins. in the ground, for the cor. of secs. 13, 18, 19 and 24, marked 3 notches on S., 3 notches on N., and G I R on E. face, from which
- A mahogany 6 ins. dia. brs. N. $89\frac{1}{2}^{\circ}$ E., 414 lks. dist.
Mkd. T 12 S R 19 W S 18 G I R B T.
- A mahogany 6 ins. dia. brs. S. $66\frac{1}{2}^{\circ}$ E., 206 lks. dist.
Mkd. T 12 S R 19 W S 19 G I R B T.
- A mahogany 6 ins. dia. brs. S. $32\frac{1}{2}^{\circ}$ W., 197 lks. dist.
Mkd. T 12 S R 20 W S 27 G I R B T.
- A mahogany 6 ins. dia. brs. N. $64\frac{1}{2}^{\circ}$ W., 102 lks. dist.
Mkd. T 12 S R 20 W S 13 G I R B T.

Cor. falls on S. slope of mountains in sage brush, and 300 ft. above bottom of hollow.

After diligent search no trace of the old cor. is found.

Land, rough and mountainous. (Grazing).
Soil, rocky, 3rd rate.
Timber, spruce, white pine and mahogany.
Undergrowth of sage brush.

North bet. secs. 13 and 18, which is the W. bdy. of the Goshute Indian Reservation.

Ascending, through scattered mahogany, and sage undergrowth.

- 13.20 Top of hill brs. E. and W., 400 ft. above corner.
Descend through scattered spruce.
- 35.00 Leave timber, brs. E. and W. Thence through sage brush.
- 40.00 Set a limestone 18x6x6 ins. 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, marked $\frac{1}{4}$ S on W.
Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
After diligent search, no trace of the old $\frac{1}{4}$ sec. cor. is found.
- 52.30 Hollow drains NE. Ascend.
- 59.80 Top of ascent; thence nearly level.
- 80.00 Set a limestone 24x18x5 ins., 16 ins. in the ground, for the cor. of secs. 7, 12, 13 and 18, marked 2 notches on N. and 4 notches on S., and G I R on E. face.
Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous. (Grazing)
Soil, rocky and gravelly, 3rd rate.
Timber, mahogany and spruce. Sage undergrowth.

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains

Nov. 18, 1914. At this cor., I observe Polaris at
4h 11m P.M., by my watch which is correct L.M.T.
T.U.C. 9 40.1

5h 29.1m = H. A., which corresponds to an azimuth of 88.8' to the E. I lay off this azimuth on my horizontal circle and find the meridian thus determined agrees within less than a minute with my line as brought to this point from the south.

From this cor. (secs. 7, 12, 13 and 18) I run North bet. secs. 7 and 12, which is the W. bdy. of the Goshute Indian Reservation.

Over mountainous land, covered with sage brush and sheep grass; Ascending.

- 2.10 Top of ascent of ridge brs. NE. and SW., 40 ft. above sec. cor. Descend.
- 12.00 Enter dense buck brush, brs. E. and W.
- 18.80 Stud Horse Creek, 5 lks. wide, 1 to 2 ins. deep, in canyon, course E. for 3.00 chs., thence NE.; 600 ft. below sec. cor.
- 23.70 Leave buck brush, brs. NE. and W.
- 26.10 Top of spur, 150 ft. above canyon, projects 5.00 chs. E. Thence descend.
- 32.70 Hollow 100 ft. below spur, drains SE. Ascend.
- 40.00 Set a quartzite stone 12x9x8 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor. bet. secs. 7 and 12, marked $\frac{1}{4}$ S on W., from which a double mahogany 20 ins. dia. brs. S. 76° E. 402 lks. dist., marked $\frac{1}{4}$ S 12 B T, and a mahogany 12 ins. dia. brs. N. 79 $\frac{3}{4}$ ° W., 200 lks. dist., marked $\frac{1}{4}$ S 7 B T.
- Cor. falls 40 ft. S. of top of spur to SE.
- 42.90 Top of spur, 40 ft. above the $\frac{1}{4}$ sec. cor., projects SE. Thence descend gradually, through mahogany timber, brs. NE. and SW.
- 47.07 Line crosses large quartzite boulder 20x12x12 feet in

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains

size. Enter dense spruce and balsam timber.

65.00 Leave all timber, brs. E. and W.

69.00 Hollow 400 ft. deep, drains NE. Ascend through dense mahogany and cedar timber.

73.95 Spur 150 ft. high, projects 5.00 chs. E. Descend.

74.55 Hollow 70 ft. deep, drains E. Ascend.

80.00 Set a limestone 24x16x6 ins., 18 ins. in the ground, for the cor. of secs. 1, 6, 7 and 12, marked with 1 notch on N. and 5 notches on S., and G I R on E. face, from which a pinon, 16 ins. dia. brs. N. 10 $\frac{1}{2}$ ° E., 183 lks. dist. mkd. T 12 S R 19 W S 6 G I R B T.

A pinon, 16 ins. dia. brs. S. 53° E., 81 lks. dist. mkd. T 12 S R 19 W S 7 G I R B T.

A pinon, 16 ins. dia. brs. S. 23 $\frac{1}{2}$ ° W., 21 lks. dist. mkd. T 12 S R 20 W S 12 G I R B T.

A pinon, 16 ins. dia. brs. N. 17° W., 128 lks. dist. mkd. T 12 S R 20 W S 1 G I R B T.

(After diligent search, no trace of the old cor. is found).

Land, very broken and mountainous.

Soil, 3rd and 4th rate.

Timber, pinon, mahogany and spruce; sage undergrowth with considerable buck brush.

North on a random line bet. secs. 1 and 6, producing same to an intersection with the N. bdy. of the Tp., prolonged west.

40.00 Set temp. stake for $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6.

80.00 Set temp. stake for N. $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6.

116.95 Intersect the random line of the N. bdy. of the Tp., prolonged west. Set temp. stake for C.C.

Returning to the cor. of secs. 1, 6, 7 and 12, thence I run

North on a true line bet. secs. 1 and 6, along the W. bdy. of the Goshute Indian Reservation.

Over mountainous land, ascending through mahogany and pinon timber.

26.00 Foot of limestone ledge 100 ft. high.

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains	
27.06	Top of ledge, brs. E. and W.
39.00	Top of ridge, 1000 ft. above the sed. cor., brs. SE. and NW.
40.00	Set a limestone 18x12x5 ins., 13 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6, marked $\frac{1}{4}$ S on W. face, from which a mahogany 10 ins. dia. brs. S.45°E., 60 lks. dist., marked $\frac{1}{4}$ S 6 B T.
	No other bearing tree available.
	Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Cor. falls on gentle N. slope, 25 ft. below top of ridge.
	No trace of the old $\frac{1}{4}$ sec. cor. is found.
	Begin gradual descent.
58.70	Bottom of descent; begin gradual ascent.
61.00	Top of ridge, brs. N. 20° E. and S. 15° W.
	Thence ascend gradually along W. slope of ridge.
65.60	Top of spur projects W. from ridge; thence descend through spruce, pine and mahogany.
77.00	Head of hollow, course NW. Ascend.
80.00	Set a limestone 20x8x3 ins., 14 ins. in the ground, for the N. $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6, marked N $\frac{1}{4}$ S on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
86.55	Descend abruptly over limestone ledge, 40 ft. high.
88.47	Descend abruptly over limestone ledge, 60 ft. high.
100.00	Head of canyon course NW.
	Thence over heavy rolling land.
114.23	Top of low spur, projects 15.00 chs. W.
	Descend gradually to
116.95	Intersect the north boundary of the Tp., prolonged west, at a point 21.49 chs. West of the SW. cor. of the Tp. 11 S., R. 19 W., at which intersection I set a limestone 20x12x4 ins. for C.C. of secs. 1 and 6, marked with 6 notches on S., E. and W., and C C on S. face, also A P G I R.
	Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of

Blank

Page

West Boundary of T. 12 S., R. 19 W.

Chains

cor.

(No trees available for B.T.s)

Land, mountainous.

Soil, 4th rate.

Timber, spruce, mahogany and pinon.

Nov. 23, 1914.

Blank

Page

North Boundary of T. 12 S., R. 19 W.

Chains

Nov. 24, 1914.

From the SW. cor. of T. 11 S., R. 19 W., which is a limestone 20x10x4 ins., firmly set and marked with 6 notches on each edge and witnessed by a mound of stone to the S. (no other marks) I run

West on a random line to an intersection with the random range line run north bet. secs. 1 and 6, T. 12 S., Rgs. 19 and 20 W., at which place -

21.49 Set a temp. stake for C.C.

At the SW. cor. of T. 11 S., R. 19 W., as previously described, I efface 6 notches from the S. edge of the stone, so that the remaining marks refer to T. 11 S. only, and from thence I run

West on a true line along the N. bdy. of Sec. 6, T. 12 S., R. 19 W.

Ascending through ^{scattered} spruce and mahogany timber.

2.45 Enter ^{dense} timber, brs. N. and S. Falls 10 lks. S. of a spruce, marked B T S 36. As no description of this exists in the notes, I destroy marks thereon.

6.75 Top of limestone ledge 62 ft. high. Descend to

8.00 Top of limestone ledge 20 ft. high.

Descend abruptly over steep W. slope.

21.49 The C.C. of secs. 1 and 6, T. 12 S., Rgs. 19 and 20 W., previously described.

Nov. 24, 1914.

Blank

Page

Denver, Colorado, *March 16* 1916

I hereby certify that the survey of the foregoing township exteriors and reservation boundary, Goshute Indian Reservation, Utah, was made under my direction and supervision, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated May 21, 1914, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

A. F. Drummond

Topographer in Charge
of Indian Surveys.

Blank

Page

CERTIFICATE OF ASSISTANTS.

of the Salt Lake Base and Meridian, in the State of Utah
which are represented in the foregoing field notes as having been executed by him, and under his direc-
tion; and that said survey has been, in all respects, to the best of our knowledge and belief, well and
faithfully executed.

[illegible]

H. L. Baldwin

U.-S.-Surveyor.-
Topographer

FINAL OATH OF UNITED STATES SURVEYOR.

I, H. L. Baldwin, Topographer, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the Commissioner of the General Land Office by A. F. Dunnington, Topographer in Charge of Indian Surveys, bearing date of the 21st day of May, 1914, I have well, faithfully, and to the best of my own proper power, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Goshute Indian Reservation.

Base and Meridian, in the State of Utah, of the Salt Lake, which are represented by the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the Commissioner of the General Land Office, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

H. L. Baldwin

U. S. Surveyor
Topographer

Subscribed by said H. L. Baldwin, and sworn to before me
this 16th day of March, 1915.

A. S. Taylor
United States Commissioner
District of Columbia

A. S. Taylor

U. S. Commissioner

APPROVAL.

OFFICE OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

~~Department of the Interior~~

Washington, D.C., Dec 4, 1916

The foregoing field notes of the survey of township exteriors within the Goshute Indian Reservation, and reservation boundary, Salt Lake Base and Meridian, Utah,

prepared by H. L. Baldwin, Topographer, under direction of A. F. Dunnington, Topographer in Charge of Indian Surveys, May 21, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signed) Chas. T. Palmer

Commissioner of the General Land Office

I certify that the foregoing transcript of the field notes of the above-described surveys in the Goshute Indian Reservation, Utah, has been correctly copied from the original notes on file in this office.

Commissioner of the General Land Office

Blank

Page

Blank

Page

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

Retracement of

Subdivision lines bet. secs. 4 and 5,

8 and 9, 6 and 17, and 7 and 18,

in

TOWNSHIP 13 SOUTH RANGE 18 WEST

(the purpose of this retracement being

to find and identify corners on the

range line bet. Rgs. 18 and 19 W.,

T. 13 S.)

Of the Salt Lake Meridian,

the State of Utah

EXECUTED BY

H. L. Baldwin, Topographer

in the capacity of U. S. Surveyor, under instructions dated May 21, 1914,
 Commissioner of the General Land Office to A. F. Dunnington,
 issued by the United States Surveyor General to govern surveys included in
 Topographer in Charge of Indian Surveys
 which were approved by the Commissioner of the General Land
 Office, pursuant to authority contained in the Act of
 Congress dated 1914

Survey commenced October 30, 1914

Survey completed October 31, 1914

200 4 43

INDEX DIAGRAM.

Tramway 12 South . Page 18 West

4	4	1	4	4	4	1
P	4	4	4	4	4	4
4	4	4	4	4	4	4
4	4	4	4	4	4	4
4	4	4	4	4	4	4
4	4	4	4	4	4	4
4	4	4	4	4	4	4
4	4	4	4	4	4	4

Retracement of
Subdivision Lines in T. 13 S., R. 18 W.

Survey commenced October 30, 1914, by H. L. Baldwin, Topographer, and executed with a Buff and Buff light weight transit No. 9107, with solar attachment; the horizontal limb being provided with two double verniers placed 180° apart and reading to single minutes of arc.

The instrument was placed in correct adjustment and tested frequently on a meridian established at camp and often on line, the high elevation and clear sky making polaris observation possible at any time in mid or late afternoon.

From a point on my random line 60 lks. S. of the cor. of secs. 4, 5, 32 and 33, on N. bdy. of Tp., as re-established by Harry Rager, and which now refers to secs. 4 and 5 only (previously described), I deflect an angle of 90° 02' from the back sight to the south and run South on a random line bet. secs. 4 and 5, also secs. 8 and 9, measuring from the cor. of secs. 4 and 5.

79.67 Falls 106 lks. W. of the cor. of secs. 4, 5, 8 and 9.

Note: As the purpose of this retracement is chiefly to find and identify corners on the range line between Rgs. 18 and 19 W., to enable me to produce the range line from the last corner found northward to an intersection with the N. bdy. of the Tp., I did not attempt to find all corners on this south random line.

122.58 Falls 197 lks. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9.

163.71 Falls 289 lks. W. of the cor. of secs. 8, 9, 16 and 17.

Returning to the cor. of secs. 4 and 5, on N. bdy. of Tp., thence I run

S. 0° 46' E. on a true line bet. secs. 4 and 5.

Descending over rough, rocky country, with sage brush under-

Blank

Page

Retracement of
Subdivision Lines in T. 13 S., R. 18 W.

Chains

growth and scattered cedar; high mountainous area to the southwest.

- 79.67 The cor. of secs. 4, 5, 8 and 9, which is a quartzite stone 10x4x10 ins. above ground, firmly set, marked 4 notches on N. and 5 on S. edges, and witnessed by a mound of stone to the west.

Land, mountainous, $1\frac{1}{2}$; and level, $S\frac{1}{2}$.
Soil, 2nd and 4th rate, rocks and gravel.
Scattered cedars and low sage brush.

S. $1^{\circ} 13'$ E. on a true line bet. secs. 8 and 9.

Over broken land, and low sage brush.

Ascending.

2.00 Top of spur to east. Descend.

3.00 Hollow, 100 ft. deep, course E. Ascend.

17.50 Hollow, course E. Ascend.

18.50 Spur to E. Descend gradually.

24.00 Drain, 50 ft. deep, course E. Ascend gradually.

27.00 Descend gradually.

- 42.92 The $\frac{1}{2}$ sec. cor. bet. secs. 8 and 9, which is a quartzite stone, firmly set and marked $\frac{1}{2}$ on W., witnessed by a mound of stone to the north.

Land, rolling.
Soil, 2nd rate, rocky and gravelly.
No timber.

Thence

S. $1^{\circ} 17'$ E. on a true line bet. secs. 8 and 9 ($S\frac{1}{2}$).

Over nearly level land, sloping gently to SE.

- 41.13 The cor. of secs. 8, 9, 16 and 17, which is a quartzite stone 8x9x5 ins. above ground, firmly set, marked with 4 notches on the E. and 4 notches on the S., witnessed by a mound of stone to the west.

Land, rolling and level.
Soil, 2nd and 3rd rate.
Underbrush of sage and shadscale.
No timber.

Page

Retracement of

Subdivision Lines in T. 13 S., R. 18 W.

Chains

From a point on the random line 289 lks. W. of the cor. of secs. 8, 9, 16 and 17, I deflect an angle of 90° to the westward and with measurement from the cor., I run West on a random tangent line along the S. bdy. of secs. 8 and 7, with fallings from the tangent as follows:

40.25 Falls 6 lks. S. of the $\frac{1}{2}$ sec. cor. bet. secs. 8 and 17.
Corrected falling 6 lks.

80.53 Falls 12 lks. S. of the cor. of secs. 7, 8, 17 and 18.
Corrected falling is 11 lks. S.

121.10 Falls 19 lks. S. of the $\frac{1}{2}$ sec. cor. bet. secs. 7 and 18.
Corrected falling is 17 lks. S.

161.38 Falls 10 lks. N. of the cor. of secs. 7, 12, 13 and 18,
on W. bdy. of Tp., previously described.
Corrected falling is 13 lks. N.

- - - - -

Returning to the cor. of secs. 8, 9, 16 and 17,
thence I run

N. $89^\circ 55'$ W. on a true line bet. secs. 8 and 17.

Ascending gently through low sage brush.

40.25 The $\frac{1}{2}$ sec. cor. of secs. 8 and 17, which is a quartzite stone
8x8x7 ins. above ground, firmly set and marked $\frac{1}{2}$ on N.
face, witnessed by a mound of stone to the north.

- - - - -

Thence I run

N. $89^\circ 55'$ W. on a true line bet. secs. 8 and 17 ($W\frac{1}{2}$)

Continuing ascent.

40.28 The cor. of secs. 7, 8, 17 and 18, which is a quartzite
stone 12x4x12 ins. above ground, firmly set, marked with
5 notches on E. and 4 notches on S., and witnessed by
a mound of stone to the West.

Land, sloping to SW. from high mountains northwest.
Soil, 2nd and 3rd rate, gravelly.
No timber.

N. $89^\circ 55'$ W. on a true line bet. secs. 7 and 18. ($E\frac{1}{2}$)

Ascending gradually, through low sage brush and rolling
land sloping south from high mountains $\frac{1}{2}$ mile northward.

40.57 The $\frac{1}{2}$ sec. cor. bet. secs. 7 and 18, which is a quartzite

Blank

Page

Retracement of
Subdivision Lines in T. 13 S., R. 18 W.

Rhaine

stone 10x6x10 ins. above ground, firmly set, marked $\frac{1}{4}$
on N. face, and witnessed by a mound of stone to the N.

- - - - -

Thence

S. 89° 33' W. on a true line bet. secs. 7 and 18 ($W\frac{1}{2}$).

Descending over rough mountainous land covered with low
sage brush.

19.60 Descend to

23.50 Bottom of ravine drains S. Ascend.

40.28 The cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp.,
previously described.

Land, heavy rolling.

Soil, 2nd rate.

No timber. Heavy sage brush.

Oct. 31, 1914.

<div data-bbox="386 572 795 732" data-label="Text"><p>Blank</p></div>			
<div data-bbox="395 1026 740 1198" data-label="Text"><p>Page</p></div>			

Denver, Colorado, *March 16* 1916

I hereby certify that the retracement of the foregoing subdivision lines in T. 13 S., R. 18 W., ^{Utah,} _^ was made under my direction and supervision, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated May 21, 1914, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

A. F. Dunnington

Topographer in Charge of

Indian Surveys.

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191____, I have well, faithfully, and truthfully surveyed in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

See Book "A"

_____ of the _____ Meridian, in the State of _____, which are represented by the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191____



APPROVAL.

OFFICE OF THE COMMISSIONER OF THE GENERAL LAND OFFICE
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Washington, D.C., Dec. 4, 1916

The foregoing field notes of the survey of subdivision lines bet. secos. 4 and 8 and 9, 8 and 17, and 7 and 18, in T. 13 S., R. 18 W., Salt Lake Base and Meridian, Utah,

executed by H.I. Baldwin, Topographer, under direction of A.F. Dunnington, Topographer in Charge of Indian Surveys, under his special instructions dated May 21, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signed) Clay D. Allman
Commissioner of the General Land Office

I certify that the foregoing transcript of the field notes of the above-described surveys in the Goshute Indian Res'n, Utah, has been correctly copied from the original notes on file in this office.

Blank

Page

Blank

Page

Blank

Page

Blank

Page

BOOK A-418

FIELD NOTES

OF THE SURVEY OF THE

Subdivision Lines

in

TOWNSHIP 12 SOUTH RANGE 12 WEST

within the Goshute Indian Reservation

Of the Salt Lake Base and Meridian,

in the State of Utah

EXECUTED BY

H. L. Baldwin, Topographer

in the capacity of U. S. Surveyor, under instructions dated May 21, 1914,

issued by the Commissioner of the General Land Office to A. F. Dunnington,
Topographer in Charge of Indian Surveys
Group No. 1, which were approved by the Commissioner of the General Land-Office, 1914, pursuant to authority contained in the Act of
Congress dated 1914.

Survey commenced November 2, 1914

Survey completed November 26, 1914

BOOK A-418

INDEX DIAGRAM.

Township 12 South, Range 19 West

6	35	5	26	4	21	3	2	8	1
34		33		26					
7	33	8	25	9	19	10	11	7	12
32		31		24					
18	30	17	23	16	18	15	10	14	5
29		29		23		17		4	
19	28	20	22	21	16	22	3	23	24
14		13		12		11			
30		29		28		27	2	26	25
31		32		33		34	1	35	36

Subdivision lines in T. 12 S., R. 19 W.

Chains

Survey commenced November 2, 1914, by H. L. Baldwin, Topographer, and executed with a Buff & Buff light weight transit No. 9107, with solar attachment; the horizontal limb being provided with two double verniers placed 180° apart and reading to single minutes of arc.

The instrument was placed in correct adjustment and tested frequently on a meridian established at camp and often on line, the high elevation and clear sky making Polaris observation possible at any time in mid or late afternoon.

Owing to the distance from the railroad and difficulty of transporting posts for marking corners, such could not be obtained until just before the close of the season, at which time posts were secured and used in the subdivision of secs. 5 and 6, T. 11 S., R. 19 W., into 10-acre tracts; consequently corners on township, range and section lines in Tps. 11 and 12 S., R. 19 W., and the restored north boundary of T. 13 S., R. 18 W., were marked by stone corners.

I begin my survey at the cor. of secs. 2, 3, 34 and 35, on S. bdy. of tp.

From a point on the original random 60 lks. S. of this corner, and which has a bearing of N. 89° 59' E., I deflect an angle of 90° from the east and with measurement from the corner run

N. 0° 1' W. bet. secs. 34 and 35.

Descending.

3.00 Enter heavy spruce, aspen and pine timber, brs. E. and W.

22.00 Bottom of canyon, drain course NE.

Begin ascent through sage brush. Leave timber, bearing NE. and SW.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains	
27.35	Top of spur to E. Descend 75 ft., to
35.00	Canyon, drain course E. 5.00 chs., and joins former with course to NE. Ascend.
40.00	Set a slate rock 24x12x4 ins., 14 ins. in the ground, marked $\frac{1}{2}$ S on W., for $\frac{1}{2}$ sec. cor. bet. secs. 34 and 35. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. falls on S. slope of spur.
48.80	Top of high spur to N. 60° E. Descend.
52.30	Enter dense aspen and spruce, brs. E. and W. Begin steep descent.
68.00	Small hollow drains NE. Thence along side hill, nearly level. Leave spruce and aspen timber brs. NE. and SW.
73.30	Descend to
77.50	Narrow strip of timber, brs. E. and W.
78.50	W. fork of Birch Creek, 10 lks. wide, 4 ins. deep, clear mountain water, course S. 75° E. Leave timber brs. E. and W. Ascend.
80.00	Set a quartzite stone 14x10x5 ins., 10 ins. in the ground, for the cor. of secs. 26, 27, 34 and 35, marked with 2 notches on E. and 1 notch on S., from which - An aspen 12 ins. dia. brs. S. 17° E., 105 lks. dist. Mkd. T 12 S R 19 W S 35 B T. An aspen 20 ins. dia. brs. S. 17 $\frac{1}{2}$ ° W., 135 lks. dist. Mkd. T 12 S R 19 W S 34 B T. No other trees available. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous and rough. Soil, 3rd rate. Timber, spruce, pine, pinon and aspen-- ----- N. 0° 1' W. bet. secs. 26 and 27. Ascending, through heavy sage brush.
15.60	Top of spur to SE.; ascend gradually.
20.10	Descend gradually.
35.00	Enter scattered aspen, brs. E. and W.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

40.00 Set a quartzite stone 16x9x8 ins., 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27, marked $\frac{1}{4}$ S on W. face, from which -

An aspen 6 ins. dia. brs. N. $7\frac{1}{2}^{\circ}$ E., 260 lks. dist.
Mkd. $\frac{1}{4}$ S 26 B T.

An aspen 6 ins. dia. brs. N. 34° W., 70 lks. dist.
Mkd. $\frac{1}{4}$ S 27 B T.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on E. slope 8.00 chs. W. of and 100 ft. above Birch Creek. Continue ascent.

80.00 Set a quartzite stone 36x10x8 ins., 12 ins. in hard rocky ground, for the cor. of secs. 22, 23, 26 and 27, which is also the SE. cor. of the Goshute Indian Reservation, marked with 2 notches on S. and 2 on E., also A P G I R on NW. face, - surrounded by a mound of stone.

Land, heavy rolling and mountainous.

Soil, rocky, 3rd rate.

Timber, scattered aspens; dense sage brush and undergrowth.

Nov. 2, 1914.

N. 0° 1' W. bet. secs. 22 and 23, along the E. bdy. of the Goshute Indian Reservation.

Begin gradual ascent through scattered aspen and dense sage brush.

8.00 Begin steep ascent of SE. slope.

40.00 Set a quartzite stone 22x12x6 ins., 12 ins. in hard ground, marked $\frac{1}{4}$ S on W., for the $\frac{1}{4}$ sec. cor. bet. secs. 22 and 23, from which

An aspen 6 ins. dia. brs. N. $59\frac{1}{2}^{\circ}$ E., 26 lks. dist.
Mkd. $\frac{1}{4}$ S 23 B T.

An aspen 7 ins. dia. brs. N. $79\frac{1}{2}^{\circ}$ W., 110 lks. dist.
Mkd. $\frac{1}{4}$ S 22 B T.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on W. edge of a strip of slide rock 20 ft. wide and 3 chs. long.

60.80 Enter scattered spruce and pinon, brs. E. and W.

65.40 Leave scattered spruce, pinon, and aspen, brs. E. and W.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 70.00 Enter loose slide rock on S. slope of mountain.
- 75.80 Top of ascent of ridge, brs. SW. and NE. 1000 ft. above cor.; descend gradually to
- 80.00 Set a quartzite stone 24x9x6 ins. in a mound of stone for the cor. of secs. 14, 15, 22 and 23, which is also an angle point on the Goshute Indian Reservation boundary, marked with 3 notches on S. and 2 on E., also A P G I R on NW., from which -
- A double spruce 10 ins. dia. brs. N. 27° E., 38 lks. dist.
Mkd. T 12 S R 19 W S 14 A P G I R B T.
- A spruce 8 ins. dia. brs. S. 59½° W., 53 lks. dist.
Mkd. T 12 S R 19 W S 22 A P G I R B T.
- Cor. falls on W. slope of mountain, 100 ft. below top of ridge in slide rock, and about 11000 ft. above sea.
- Land, rough and mountainous.
Soil, rocky, 4th rate.
Timber, aspen and scrub spruce, and sage undergrowth.

Nov. 2, 1914.

From the cor. of secs. 14, 15, 22 and 23, which is an angle point on the reservation boundary, I deflect 90° 01½' to the east from the north, and run East on a true line along the reservation boundary bet. secs. 14 and 23.

Steep ascent, over slide rock; through scattered, dwarfed spruce.

- 3.25 Top of ridge, 100 ft. above corner. Leave timber brs. N. and S. Descend.
- 6.30 Begin abrupt descent.
- 8.00 Enter dwarfed and scattered spruce brs, N. and S.
Thence gradual descent over loose slide rock to
- 30.00 Saddle of ridge at head of Birch Creek, brs. S. 5.00 chs. dist. Continue gradual descent along NE. slope, through heavy spruce timber.
- 40.00 Set a quartzite stone 24x10x6 ins., 16 ins. in the ground, for ¼ sec. cor. bet. secs. 14 and 23, marked ¼ S on N. face, from which

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

A spruce 10 ins. dia. brs. S. 74° E., 10 lks. dist.
Mkd. $\frac{1}{2}$ S 23 B T.

A spruce 6 ins. dia. brs. N. 65 $\frac{1}{2}$ ° W., 6 lks. dist.
Mkd. $\frac{1}{2}$ S 14 B T.

Cor. falls on NE. slope 800 ft. below summit of ridge to the west and 5.00 chs. NE. of saddle above mentioned.

41.73 Spruce 17 ins. in dia. on line, marked with 2 notches front and back.

69.80 Leave dense spruce and enter dense aspen, brs. N. and S.

80.00 Set a slate rock 18x12x4 ins. 12 ins. in the ground, for the cor. of secs. 13, 14, 23 and 24, which is also an angle point on the reservation boundary, marked with 3 notches on S. and 1 notch on E., also A P G I R on NW. face, from which -

A spruce 18 ins. dia. brs. N. 68 $\frac{1}{2}$ ° E., 216 lks. dist.
Mkd. T 12 S R 19 W S 13 A P G I R B T.

A spruce 12 ins. dia. brs. S. 52 $\frac{1}{2}$ ° E., 112 lks. dist.
Mkd. T 12 S R 19 W S 24 A P G I R B T.

A spruce 10 ins. dia. brs. S. 13 $\frac{1}{2}$ ° W., 222 lks. dist.
Mkd. T 12 S R 19 W S 23 A P G I R B T.

A pine 24 ins. dia. brs. N. 26° W., 147 lks. dist.
Mkd. T 12 S R 19 W S 14 A P G I R B T.

Cor. falls on side hill on edge of timber a little above the west edge of a snowslide, course N. 10° E., about 8.00 chs. above its junction with a ravine, course NE., and 150 ft. above said junction. The cor. is about 1000 ft. lower than the $\frac{1}{4}$ sec. cor. $\frac{1}{2}$ mile west.

Land, heavy mountainous.
Soil, slide rock and gravel.
Timber, heavy spruce and aspen.

At the cor. of secs. 13, 14, 23 and 24, I deflect an angle of 89° 59' from the west to the north, and run N. 0° 1' W. on a true line bet. secs. 13 and 14, along the E. bdy. of the Goshute Indian Reservation.

Over rough, mountainous land, descending into canyon, through dense aspen and pine.

13.06 Creek, 10 lks. wide, 2 ins. deep, course SE., 200 ft. below corner. Begin abrupt ascent, through scattered

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

aspen and pine timber, and undergrowth of buck brush.

22.00 Leave aspen and pine, and enter mahogany timber, brs. E. and W.

30.60 Top of ridge, 600 ft. above creek, brs. E., 25.00 chs. and west. Leave mahogany timber, thence descend through spruce, bearing N. and W.

40.00 Set a slate rock 24x14x3 ins., 16 ins. in the ground for $\frac{1}{4}$ sec. cor. bet. secs. 13 and 14, marked $\frac{1}{4}$ S on W., from which a spruce 8 ins. dia. brs. S. $61\frac{1}{2}^{\circ}$ E., 41 lks. dist., mkd. $\frac{1}{4}$ S 13 B T. A spruce 14 ins. dia. brs. N. $45\frac{1}{2}^{\circ}$ W., 42 lks. dist., mkd. $\frac{1}{4}$ S 14 B T.

Cor. falls on N. slope 500 ft. below top.

At this cor., I observe Polaris at eastern elongation in the afternoon of Nov. 8, at 4h 19^m l.m.t., by my watch which is correct. I lay off the azimuth to the west $1^{\circ} 29.4'$ and the true meridian thus determined falls about $\frac{1}{4}'$ N. of my line, which is therefore correct, with a bearing of N. $0^{\circ} 1' W.$

Nov. 8, 1914.

Continue N. $0^{\circ} 1' W.$ bet. secs. 13 and 14, with measurement from the sec. cor.

Over steep descent, through heavy spruce and pine timber, over loose slide rock.

55.00 A deserted cabin brs. E., 15 chs. dist., on S. side of creek in canyon.

60.00 Small drain, course NE. Ascend.

68.00 Top of low spur to E., 75 ft. high; descend.

72.00 Trout creek, 15 lks. wide, 3 ins. deep, clear mountain water, course SE. Thence steep ascent, through scattered spruce, aspen and mahogany.

80.00 Set a sandstone 24x8x4 ins., 16 ins. in the ground, for the cor. of secs. 11, 12, 13 and 14, on E. bdy. of Goshute Indian Reservation, marked 4 notches on S. and 2 on E., and G I R on W., from which

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

A triple mahogany 10 ins. dia. brs. N. 19° E., 73 lks. dist.
Mkd. T 12 S R 19 W S 12 G I R B T.

A mahogany 15 ins. dia. brs. S. 50½° E., 225 lks. dist.
Mkd. T 12 S R 19 W S 13 G I R B T.

A mahogany 14 ins. dia. brs. S. 44° W., 39 lks. dist.
Mkd. T 12 S R 19 W S 14 G I R B T.

A mahogany 8 ins. dia. brs. N. 49° W., 41 lks. dist.
Mkd. T 12 S R 19 W S 11 G I R B T.

Cor. falls about 250 ft. above creek in canyon and 20 ft.
S. of rock ledge.

Land, rough and mountainous.
Soil, rocky, 4th rate.
Timber, spruce, aspen, pine, mahogany; some undergrowth
of buck brush.

N. 0° 1' W. bet. secs. 11 and 12, along the reservation
boundary.

Ascending abruptly, through scattered mahogany and aspen,
over quartzite ledges.

35.90 Top of spur to SE.; continue steep ascent.

40.00 Set a slate rock 24x14x4 ins., 16 ins. in the ground,
for ¼ sec. cor. bet. secs. 11 and 12, marked ¼ S on
W., from which a pinion 36 ins. dia. brs. N. 86° W.,
127 lks. dist., mkd. ¼ S 11 B T, and a double pinion
30 ins. dia. brs. N. 84° 30' E., 100 lks. dist., mkd.
¼ S 12 B T.

Cor. falls on steep side hill being a south slope of Red
Mountain and 1600 feet above Trout Creek.

Continue steep ascent.

62.00 Leave timber, brs. SE. and W.

67.00 Top of ridge, 500 ft. above last cor., brs. E. and W.
Thence steep descent on loose slide rock, through scat-
tered spruce and pine.

79.45 Seeing that the true point for the cor. of secs. 1, 2, 11
and 12 will fall in an unsafe place for cor., I set a
sandstone 14x14x5 ins. 10 ins. in the ground, for W.C.,
marked with 5 notches on S. and 1 on E., G I R on W.,
and W C on N., from which

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

A spruce 10 ins. dia. brs. N.78°30'E., 42 lks. dist.
Mkd. T 12 S R 19 W S 1 G I R W C B T.

A spruce 7 ins. dia. brs. S.16°E., 41 lks. dist.
Mkd. T 12 S R 19 W S 12 G I R W C B T.

A spruce 8 ins. dia. brs. S.30°15'W., 122 lks. dist.
Mkd. T 12 S R 19 W S 11 G I R W C B T.

A spruce 12 ins. dia. brs. N.19°30'W., 141 lks. dist.
Mkd. T 12 S R 19 W S 2 G I R W C B T.

Cor. falls on NW. slope of Red Mountain 300 ft. below the top, and is totally protected from snow slides by a scrubby spruce tree alongside the cor.

80.00 True point for the cor. of secs. 1, 2, 11 and 12, falls in unsafe place for cor., in loose slide rock 300 ft. below the top of a mountain.

Land, rough and mountainous.
Soil, rocky, 4th rate.
Timber, mahogany and spruce.

N. 0° 1' W. bet. secs. 1 and 2, along the Goshute Indian Reservation boundary.

Descending gradually along W. slope of Red Mountain, over loose slide rock and scattered spruce trees.

7.00 Extreme E. head of canyon, course W. Ascend.

11.10 Summit of sharp edged ridge brs. E. and W., 100 ft. above head of canyon. Thence descend through spruce trees.

22.11 Descend abruptly over very precipitous side hill and loose slide rock.

Nov. 9, 1914.

37.50 End of precipitous descent, 1400 ft. below ridge.
Thence descend gradually.

40.00 Set a granite stone 25x8x4 ins. 18 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 2, marked $\frac{1}{4}$ on W. face, from which -

A spruce 8 ins. dia. brs. S. 21° E., 6 lks. dist.
Mkd. $\frac{1}{4}$ S 1 B T.

A spruce 18 ins. dia. brs. S. 50 $\frac{1}{2}$ ° W., 78 lks. dist.
Mkd. $\frac{1}{4}$ S 2 B T.

Cor. falls near foot of slope and about 1500 ft. below top of ridge and 500 ft. above creek which is $\frac{1}{4}$ of a mile N. of this point.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 52.80 Foot of descent.
- 57.00 A branch of 15 mile creek, 10 lks. wide, 2 ins. deep, pure clear mountain water, course NW. Leave spruce, and ascend through dense aspen bearing N. and W.
- 80.00 Set a granite stone 20x10x3 ins. 16 ins. in the ground, for the N. $\frac{1}{2}$ sec. cor. bet. secn. 1 and 2, mkd. N $\frac{1}{2}$ S on W. face, from which an aspen 4 ins. dia. brn. S. 85° E., 33 lks. dist., marked N $\frac{1}{2}$ S 1 B T, and a pinon, 40 ins. dia. brn. N. 31° 15' W., 120 lks. dist. mkd. N $\frac{1}{2}$ S 2 B T.
- Cor. falls on side hill sloping S., and about 5.00 chs. S. of a slim granite pinnacle 100 ft. high, and 1000 ft. above the creek. Continue steep ascent.
- 84.72 Top of steep ascent between granite pinnacles 100 ft. high on each side of line. Thence gradual ascent over large granite boulders.
- 93.44 Top of ridge, 300 ft. above cor. Descend abruptly through dense spruce.
- 116.00 Small hollow drains NW. Ascend.
- 117.12 Intersect the S. bdy. of T. 11 S., R. 19 W., recently established by me, at a point 21.91 chs. W. of the cor. of sec. 35 and 36, at which place I set a granite stone 24x10x5 ins. ^{16 ins. in ground} for C.C. of secn. 1 and 2, which is also an angle point on the reservation bdy., marked with 5 notches on W. and 1 notch on E., C C on S., and A P G I R on N. face, from which -
- A spruce 12 ins. dia. brn. S. 43° E., 56 lks. dist.,
mkd. T 12 S R 19 W S 2 A P G I R C C B T.
- A spruce 10 ins. dia. brn. S. 50° W., 4 lks. dist.
mkd. T 12 S R 19 W S 2 A P G I R C C B T.
- Cor. falls 200 ft. from top of ridge on N. slope of mountain.
- Land, rough and mountainous.
Soil, rocky, 4th rate.
Timber, spruce, aspen, and pinon..

Nov. 10, 1914.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

From the cor. of secs. 14, 15, 22 and 23, I run
N. $0^{\circ} 1'$ W. bet. secs. 14 and 15, along W. side of mountain; over loose slide rock, very broken surface but on nearly same elevation; - occasional scattered spruce.

40.00 Set a quartzite stone $18 \times 10 \times 5$ ins. in a mound of stone, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W., from which -
A spruce 10 ins. dia. brs. N. $79^{\circ} 30'$ E., 14 lks. dist.
Mkd. $\frac{1}{4}$ S 14 B T.

A spruce 14 ins. dia. brs. S. $19^{\circ} 15'$ W., 53 lks. dist.
Mkd. $\frac{1}{4}$ S 15 B T.

Cor. falls in small clump of spruce trees in loose slide rock about 300 ft. below and 10 chs. W. of summit of mountain; elevation about 11,000 ft. above sea.

45.00 Hollow drains W., 400 ft. below summit; ascend gradually.

67.20 Top of ascent. Ridge, brs. N. 20° W. and S. 20° E.

At this point, Nov. 3, I observe Polaris at 3h 56m 40s P.M., by my watch which is 24m 20s slow of local mean time or an correct 4h 21.0m.

T. U. C. Polaris, 10h 40.5m

L.H.T. of obs'n, 4 21.0

Time to next culmination 6h 19.5m - which corresponds to an azimuth of $1^{\circ} 29.2'$.

I lay off this angle to the W. on the horizontal plate of the instrument and find the line thus determined to strike 1.5' E. of my foresight.

Therefore my line has a correct bearing of N. $0^{\circ} 01'$ W.
Nov. 3, 1914.

68.30 Thence descend through heavy spruce, pine, and pinion timber, over very steep slope almost inaccessible at present from hard frozen surface of snow.

80.00 Set a quartzite stone $18 \times 14 \times 5$ ins., 12 ins. in the ground for the cor. of secs. 10, 11, 14 and 15, with 4 notches on S. and 2 notches on E. edges, from which -

A spruce 16 ins. dia. brs. N. 28° E., 29 lks. dist.
Mkd. T 12 S R 19 W S 11 B T.

A spruce 16 ins. dia. brs. S. 20° E., 72 lks. dist.
Mkd. T 12 S R 19 W S 14 B T.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

A spruce 16 ins. dia. brs. S. $33\frac{1}{2}^{\circ}$ W., 52 lks. dist.
Mkd. T 12 S R 19 W S 15 B T.

A spruce 14 ins. dia. brs. N. 50° W., 36 lks. dist.
Mkd. T 12 S R 19 W S 10 B T.

Cor. falls on very steep NE. slope, 400 ft. below ridge,
10 chs. W. and 300 ft. above head of Canyon, course E.

Land, rough and mountainous.

Soil, 4th rate.

Timber, spruce and pine.

Nov. 13, 1914.

At the cor. of secs. 22, 23, 26 and 27, previously described, and which is an angle point on the reservation boundary, I deflect an angle of $89^{\circ} 56.5'$ from my north fore sight, which here has a bearing of N. $0^{\circ} 01'.5$ west, and run

West on a tangent line establishing by proper offsets from the same, the south boundary of the Goshute Indian Reservation, bet. secs. 22 and 27.

Ascend, through aspen timber, over rough mountainous land covered with slide rock and sage brush.

37.05 Top of ridge, 1200 ft. above cor., brs. NE. and SW.

Thence over flat, descending to

40.00 The $\frac{1}{4}$ sec. cor. bet. secs. 22 and 27. Set a quartzite rock $6 \times 6 \times 20$ ins. 14 ins. in the ground, marked $\frac{1}{4}$ on N. face, with a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. An aspen 5 ins. dia. brs. N. 23° W., 38 lks. dist., mkd. $\frac{1}{4}$ S 22 B T. An aspen 6 ins. dia. brs. S. 58° E., 57 lks. dist., mkd. $\frac{1}{4}$ S 27 B T. Cor. falls in open spot surrounded by aspen brush, about 50 ft. below top of mt. Thence steep descent, through dense aspen.

70.25 Leave aspen brs. N. and S.; enter dense undergrowth of buck brush.

79.20 6 lks. S. of the true boundary, I find a quartzite stone $16 \times 4 \times 5$ ins. properly marked and witnessed by a mound of stone to the West, it being the cor. of secs. 21, 22, 27 and 28, as established by Rager. I destroy this cor.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 80.00 1 lk. N. of the tangent, set a quartzite stone 20x8x6 ins. 14 ins. in the ground, for the cor. of secs. 21, 22, 27 and 28, marked with 3 notches on E. and 2 notches on S., and G I R on N. face. Build a mound of stone 2 ft. base, 1½ ft. high, W. of cor.
- Cor. falls in dense clump of buck brush on W. slope of mountain, about 1500 ft. below the ¼ sec. cor. and 1200 ft. above Johnson Creek Canyon to the westward.
- Land, mountainous and rough.
Soil, 3rd rate.
Timber, aspen; dense undergrowth of buck brush and sage.
-
- S. 89° 59.3' W. on a tangent, descending through dense buck brush along the reservation bdy., bet. secs. 21 and 28.
- 35.90 Leave brush, brs. N. and S.
- 37.80 Top of small bench, brs. N. and S.
- 39.14 16 lks. S. of the true line, find the old ¼ sec. cor., - a quartzite stone 12x10x7 ins., firmly set and properly marked, and witnessed; this being Rager's ¼ sec. cor. bet. secs. 21 and 28. I destroy same.
- 40.00 2 lks. N. of the tangent, I set a quartzite 12x8x6 ins. 9 ins. in the ground, for the ¼ sec. cor. bet. secs. 21 and 28, marked ¼ S on N. face. Build a mound of stone 2 ft. base, 1½ ft. high, N. of cor.
- Corner falls on bench 150 ft. above Johnson Creek and 800 ft. below the last cor.
- 49.50 E. fork of Johnson Creek, 12 lks. wide, 2 lks. deep, pure clear mountain water, course N. 10.00 chs., thence NW. Narrow strip of spruce, pine and aspen along the creek. Ascend abruptly, through scattered mahogany timber.
- 73.44 Top of steep ascent and ridge, 800 ft. above creek, brs. S. 80° E. and N. 80° W. Thence along ridge (nearly level) through scattered mahogany.
- 79.67 18 lks. S. of this point, I find the old sec. cor. as set

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

by Rager, - a quartzite stone 10x8x5 ins. above ground, firmly set, marked with 4 notches on E. and 2 on S., and witnessed by a mound of stone to the W.

I destroy this cor.

80.00 3 lks. N. of the tangent, I set a quartzite stone 30x8x3 ins. 20 ins. in the ground, marked with 4 notches on E. and G I R on N. face, and 2 notches on S. for the cor. of secs. 20, 21, 28 and 29. Build a mound of stone 2 ft. base, 1½ ft. high, W. of cor. A spruce 20 ins. dia. brs. N. 76° E., 273 lks. dist., marked T 12 S R 19 W S 21 G I R B T. A mahogany 10 ins. dia. brs. S. 74½° E., 265 lks. dist., marked T 12 S R 19 W S 28 G I R B T. Cor. falls on top of ridge, bearing N. 80° W. and S. 80° E. Land, mountainous. Soil, rocky, 3rd rate and 4th rate. Timber, scattered aspen, spruce, pine and mahogany.

S. 89° 58.6' W. on a tangent, bet. secs. 20 and 29, along the S. bdy. of the Goshute Indian Reservation.

Through undergrowth of low sage brush.

9.80 Begin descent along N. slope of ridge.

At this point the flag set on meridian line at camp, as previously described, brs. N. 12° 19' W. about 1 mile dist. From the flag at camp this point brs.

S. 12° 19' E., which checks the bearing of my random Nov. 3, 1914.

33.80 Enter aspen, brs. N. and S.

39.00 Ravine, 200 ft. deep, course N. Ascend.

40.00 5 lks. N. of the tangent, set a quartzite stone 12x12x4 ins. 8 ins. in the ground, for the ¼ sec. cor. bet. secs. 20 and 29, marked ¼ S on N., from which an aspen 14 ins. dia. brs. S. 36° E., 22 lks. dist., mtd. ¼ S 29 B T. and a spruce 15 ins. dia. brs. N. 47° 15' W., 100 lks. dist., marked ¼ S 20 B T.

Cor. falls about 50 ft. above bed of canyon, course N. 10° E.

After diligent search no trace of the old ¼ sec. cor. is found.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 43.50 Leave aspen timber, brs. N. and S.
Thence over broken land.
- 52.45 Enter dense pine and spruce timber.
- 53.45 Head of small canyon, 200 ft. deep, course N. Ascend.
- 57.60 Top of spur to N., 15 chs. Descend gradually.
- 73.00 Bottom of canyon near head, 350 ft. deep, drains NE.
Leave dense spruce and enter scattered mahogany.
- 77.72 Top of spur, 300 ft. high projects N., 20 chs.
Thence descend gradually; thence through mahogany and spruce.
- 79.23 14 lks. S. of the true line, find a blue limestone 5x4x8 ins. above ground, firmly set and properly notched, with a mound of stone, same being the cor. of secs. 19, 20, 29 and 30, as set by Rager. I destroy this cor.
- 80.00 8 lks. N. of the tangent, set a blue limestone 30x12x5 ins. 20 ins. in the ground, for the cor. of secs. 19, 20, 29 and 30, marked with 5 notches on E. and 2 notches on S., and G I R on N., from which -
- A spruce 8 ins. dia. brs. N. 34° E., 46 lks. dist.
Mkd. T 12 S R 19 W S 20 G I R B T.
- A spruce 8 ins. dia. brs. S. $62\frac{1}{2}^{\circ}$ E., 96 lks. dist.
Mkd. T 12 S R 19 W S 29 G I R B T.
- A spruce 5 ins. dia. brs. S. $64\frac{3}{4}^{\circ}$ W., 28 lks. dist.
Mkd. T 12 S R 19 W S 30 G I R B T.
- A spruce 18 ins. dia. brs. N. 53° W., 44 lks. dist.
Mkd. T 12 S R 19 W S 19 G I R B T.
- Cor. falls about 800 ft. above the W. fork of Johnson Canyon and is in a spruce thicket.

S. $89^{\circ} 57.9'$ W. on a tangent, bet. secs. 19 and 30, along the S. bdy. of the Goshute Indian Reservation.

Over rough mountainous land, sloping to the N., through dense spruce and pine timber.

- 2.20 Descend gradually.
- 28.00 Bottom of canyon, 300 ft. deep, course NW.
Thence steep ascent; through dense mahogany timber.
- 34.90 Top of spur to N. Descend.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

39.96 Spruce, 9 ins. dia. on line, 2 notches front and back.

40.00 10 lks. N. of the tangent, set a limestone 16x12x4 ins.

12 ins. in the ground, for the $\frac{1}{2}$ sec. cor. bet. secs.

19 and 30, marked $\frac{1}{2}$ S on N. face, from which

A spruce 10 ins. dia. brs. S. 25° E., 5 lks. dist.
Mkd. $\frac{1}{4}$ S 30 B T.

A spruce 10 ins. dia. brs. N. 38 $\frac{1}{2}$ ° W., 30 lks. dist.
Mkd. $\frac{1}{4}$ S 19 B T.

Cor. falls on W. slope of spur about 40 ft. below top.

After diligent search no trace of Rager's cor. is found.

40.13 Spruce 15 ins. dia. on line, 2 notches front and back.

42.00 Hollow 150 ft. deep, drains NE.

Thence abrupt ascent through dense mahogany and spruce.

77.99 At theoretical distance, and 14 lks. N. of the tangent,

set a blue limestone 14x14x3 ins. 9 ins. in the ground,

for the cor. of secs. 19, 24, 25 and 30, on W. bdy. of

Tp., which cor. is also the SW. cor. of the Goshute

Indian Reservation, marked with 2 notches on S., 4

notches on N. and SW COR G I R on NE. face, from which

A white pine 10 ins. dia. brs. N. 21° 15' E., 12 lks. dist.
Mkd. T 12 S R 19 W S 19 SW COR G I R B T.

A white pine 12 ins. dia. brs. S. 35° E., 40 lks. dist.
Mkd. T 12 S R 19 W S 30 SW COR G I R B T.

A white pine 9 ins. dia. brs. S. 33° 45' W., 36 lks. dist.
Mkd. T 12 S R 20 W S 25 SW COR G I R B T.

A white pine 12 ins. dia. brs. N. 39° 30' W., 25 lks. dist.
Mkd. T 12 S R 20 W S 24 SW COR G I R B T.

Cor. falls on E. slope of mountain 1000 ft. above canyon
to the N.

Continuing the tangent westward, at

80.29 Tangent falls 22 lks. N. of the old cor. (Rager's) or same

is 32 lks. S. of the true line projected west from the

cor. Rager's cor., which I destroy, is a limestone

15x8x6 ins., 10 ins. in the ground, marked with 2 not-

ches on S., and 4 notches on N., witnessed by a mound

of stone to the west.

Land, mountainous.

Soil, rocky, 3rd rate.

Timber, pine, spruce and mahogany.

Nov. 6, 1914.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

From the point on the tangent line 1 lk. S. of the cor.
of secs. 21, 22, 27 and 28, I run

N. $0^{\circ} 2'$ W. bet. secs. 21 and 22.

Over rough, mountainous land, through dense buck brush,
ascending.

5.00 Leave buck brush and descend.

9.70 Head of canyon, course W., 90 ft. below cor.

Enter scattered aspens; and begin steep ascent.

30.00 Top of spur 200 ft. high, SW. for 20 chs.

Leave aspens bearing E. and W. Thence gradual descent.

34.00 Enter aspen timber brs. E. and W., and scattered spruce.

40.00 Set a quartzite stone $18\frac{1}{2} \times 9 \times 9$ ins. 12 ins. in the ground,
for the $\frac{1}{4}$ sec. cor. bet. secs. 21 and 22, marked $\frac{1}{4}$ S
on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,
W. of cor. An aspen 5 ins. dia. brs. N. 69° E., 9
lks. dist., mkd. $\frac{1}{4}$ S 22 B T. An aspen 7 ins. dia.
brs. S. $3\frac{1}{2}^{\circ}$ W., 22 lks. dist., marked $\frac{1}{4}$ S 21 B T.

40.03 Falls 84 lks. W. of the old $\frac{1}{4}$ sec. cor. set by Rager,
which is a quartzite stone $8 \times 10 \times 3$ ins., firmly set,
from which an aspen 3 ins. dia. brs. S. 45° W., 12 lks.
dist., mkd. B T, and an aspen 5 ins. dia. brs. S. 22° E.
124 lks. dist., mkd. B T. I destroy the old B.T.s and
cor.

43.50 Enter spruce and pine, brs. E. and W. Descent becomes
steeper.

45.32 Spruce 14 ins. dia. on line, 2 notches back and front.

46.30 Spruce 10 ins. " " " " " " " "

49.80 Spruce, 14 ins. " " " " " " " "

60.20 Bottom of canyon, 600 ft. deep, drains W. Leave dense
aspens and spruce, and begin abrupt ascent, on N. side
of canyon, over loose slide rock.

78.65 Top of ridge, 800 ft. high, brs. E. and W. Descend to

80.00 The cor. of secs. 15, 16, 21 and 22, set a quartzite
stone $20 \times 10 \times 5$ ins., 15 ins. in the ground, Build a
mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

The cor. falls near the summit of a high bare ridge extending E. and W.

Rager's old cor. brs. N. 60° E., 84 lks. dist., and is a quartzite stone 14x9x5 ins. properly marked and witnessed by a mound of stone. I destroy this cor.

Land, rocky and mountainous.

Soil, 4th rate.

Timber, spruce, aspen and pine.

S. 89° 55' E. on a random line bet. secs. 15 and 22, the cor. of secs. 14, 15, 22 and 23, being plainly visible.

35.88 Point for triangulation, up very steep mountain side covered with loose slide rock and heavy spruce timber which, near the mountain top, becomes scrubby. At this point I set a flag "A", also another flag "B" northerly from this point 1750.4 lks., the angle between it and the section cor. to the eastward being 75° 19'. At Flag "B" the angle between the flag "A" and the section cor. is 81° 35'. At the sec. cor., or flag "C" I measure the third angle and find it to be 23° 06'.

$$\text{Then } AC = \frac{1750.4 \times \sin B}{\sin C}$$

$$\text{Log } 1750.4 = 1.24314$$

$$\sin B \ 81^\circ 35' = 9.99530$$

$$\sin C \ 23^\circ 06' = 9.59366 \text{ or } AC = 0.40634$$

$$A \ C = 1.64478 = 44.14 \text{ chs.}$$

$$35.88 + 44.14 = 80.02 \text{ chs.}$$

80.02 The cor. of secs. 14, 15, 22 and 23.

Thence I run

N. 89° 55' W. on a true line bet. secs. 15 and 22.

Descending abruptly through scattered scrub spruce, which soon becomes large and dense; over loose slide rock on steep mountain side.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 40.01 Set a quartzite stone 16x9x9 ins. 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 15 and 22, marked $\frac{1}{4}$ S on N., from which a spruce 14 ins. dia. brs. S. 57° E., 81 lks. dist., marked $\frac{1}{4}$ S 22 B T, and a pinon. 26 ins. dia. brs. N. 75° W., 112 lks. dist., marked $\frac{1}{4}$ S 15 B T. Also build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Cor. falls 1200 ft. below the section cor.
- Descent becomes less abrupt.
- 44.14 Point of triangulation.
- 54.00 Leave dense timber of spruce and scattered aspen, brs. SE. and NW. Continue descent along N. slope of base of ridge.
- 80.02 The cor. of secs. 15, 16, 21 and 22.
- Land, mountainous and rough.
Soil, slide rock on E. half; gravelly, 3rd rate, on W. half.
Timber, spruce, aspen and pinon.
-
- N. 0° 2' W. bet. secs. 15 and 16.
- Over mountainous land, covered with sparse grass and low sage, descending.
- 5.00 Begin abrupt descent through scattered spruce and aspen.
- 24.45 Bottom of Cremate Canyon, near head thereof, 800 ft. below the cor. Thence steep ascent; leave timber brs. E. and W.
- 40.00 Set a quartzite stone 20x10x6 ins. 14 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 15 and 16, marked $\frac{1}{4}$ S on W. face. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- Cor. falls on S. slope 600 ft. above bed of Cremate Canyon.
- No trace of the old $\frac{1}{4}$ sec. cor. is found.
- 74.50 Top of spur 15.00 chs. to W. Descend.
- 76.25 Enter aspen timber, brs. E. and W. Begin abrupt descent.
- 80.00 Set a quartzite stone 24x9x9 ins. 18 ins. in the ground, for the cor. of secs. 9, 10, 15 and 16, marked with 4

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

notches on S. and 3 on E., from which -

A spruce 15 ins. dia. brs. N. $49\frac{1}{2}^{\circ}$ E., 60 lks. dist.
Mkd. T 12 S R 19 W S 10 B T.

A spruce 16 ins. dia. brs. S. $63\frac{1}{2}^{\circ}$ E., 97 lks. dist.
Mkd. T 12 S R 19 W S 15 B T.

An aspen 8 ins. dia. brs. S. $35\frac{1}{2}^{\circ}$ W., 58 lks. dist.
Mkd. T 12 S R 19 W S 16 B T.

An aspen 6 ins. dia. brs. N. $48\frac{1}{2}^{\circ}$ W., 50 lks. dist.
Mkd. T 12 S R 19 W S 9 B T.

Cor. falls on N. slope in small aspen 150 ft, below top of ridge.

The old sec. cor. brs. N. $78^{\circ}30'$ E., 81 lks. dist., and is a quartzite stone 10x10x6 ins., properly marked, from which the old bearing trees, - a spruce 20 ins. dia. brs. N. 43° E., 38 lks. dist. (not marked); an aspen 8 ins. dia. brs. S. $3\frac{1}{2}^{\circ}$ E., 26 lks. dist., mkd. B T.; an aspen 8 ins. dia. brs. S. 20° W., 25 lks. dist., marked B T. No trace of the other bearing tree.

I destroy this old cor., and all marks on the bearing trees.

Land, rough and mountainous.

Soil, rocky, 4th rate.

Scattered timber of aspen and spruce.

Nov. 14, 1914.

Note: As sections 3, 10 and 15 are largely timbered they are, by request of the Indian Agent, not subdivided but are retained for a timber reserve.

From the cor. of secs. 9, 10, 15 and 16, I run

N. $0^{\circ}2'$ W. bet. secs. 9 and 10, descending through aspen and spruce timber, over mountainous land, on N. side of ridge.

17.50 Dry bed of creek in canyon, course W.

Leave timber, brs. N. and W. Begin abrupt ascent.

40.00 Set a quartzite rock 24x10x4 ins., 16 ins. in the ground, for the $\frac{1}{2}$ sec. cor. bet. secs. 9 and 10, marked $\frac{1}{4}$ S on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

Cor. falls on top of spur falling off rapidly to W.
From this $\frac{1}{2}$ sec. cor. U. S. Mineral Monument No. 2, which is a pine post 6 ft. high in a mound of stone 6 ft. base, and 3 ft. high, marked U. S. L. M. No. 2, brs. S. 84° 42' E., 28.77 chs., from which a pinion 10 ins. dia. brs. N. 57° 10' W., 138 lks. dist.; a pinion 6 ins. dia. brs. S. 27° 20' E., 51 lks. dist., and a pinion 6 ins. dia. brs. S. 7° 15' E., 104 lks. dist., as reported, each marked B T U S L M N O 2. No trace of the 4th bearing tree. Signal station on Mount Ibapah brs. N. 50° 09' E., instead of N. 50° 05' E., as described.

A prominent peak, described as bearing S. 36° W. about $4\frac{1}{2}$ miles, must be Johnson Peak, S. 24° 12' W., about 4 miles dist.

North Peak of Red Mountain brs. N. 70° 35' E., instead of N. 70° 30' E., $3\frac{1}{4}$ miles dist., as described.

From the $\frac{1}{2}$ sec. cor. a rock monument which is evidently a cor. on some mineral survey brs. East 6.78 chs. Rager's old $\frac{1}{2}$ sec. cor. brs. N. 53 $\frac{1}{2}$ ° E., 1.15 chs., which cor. I destroy.

Thence continue line along steep descent of N. of spur.

65.50 Enter spruce, balsam and aspen timber, brs. SE. and W.

65.83 Spruce 10 ins. dia., on line, 2 notches front and back.

80.00 Set a limestone 20x10x3 ins., 15 ins. in ground for the cor. of secos. 3, 4, 9 and 10, marked with 3 notches on E. and 5 notches on S., from which -

A balsam 6 ins. dia. brs. N. 31 $\frac{1}{2}$ ° E., 61 lks. dist.
Mkd. T 12 S R 19 W S 3 B T.

A balsam 10 ins. dia. brs. S. 56° E., 113 lks. dist.
Mkd. T 12 S R 19 W S 10 B T.

An aspen 6 ins. dia. brs. S. 81 $\frac{1}{2}$ ° W., 20 lks. dist.
Mkd. T 12 S R 19 W S 9 B T.

An aspen 6 ins. dia. brs. N. 42 $\frac{1}{2}$ ° W., 93 lks. dist.
Mkd. T 12 S R 19 W S 4 B T.

Cor. falls 200 ft. W. of Small Creek in Gasch Canyon.

Land, mountainous and very rough.
Soil, slide rocks and gravel, 4th rate.
Timber, aspen, spruce and balsam.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

N. $0^{\circ} 2'$ W. bet. secs. 3 and 4.

Descending, over mountainous land, covered with spruce and aspen.

2.00 Creek, 15 lks. wide, 3 ins. deep, clear mountain water, in Gasch Canyon, course NW.

Ascend. Leave timber, brs. NW. and SE.

4.00 Dense undergrowth of sage brush; thence nearly level.

13.80 Enter spruce and mahogany timber, brs. E. and W.

19.50 Hollow, 100 ft. deep, course NW. Ascend through dense mahogany and pine.

31.00 Top of ridge, 200 ft. above hollow, brs. N. 75° W. and S. 75° E. Descend.

40.00 Set a limestone $16 \times 12 \times 3$ ins. 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 3 and 4, marked $\frac{1}{4}$ S on W., from which a mahogany 12 ins. dia. brs. S. 11° E., 91 lks. dist., mkd. $\frac{1}{4}$ S 3 B T; and a mahogany 5 ins. dia. brs. S. $19\frac{1}{2}^{\circ}$ W., 95 lks. dist., mkd. $\frac{1}{4}$ S 4 B T.

Nov. 21, 1914.

43.50 Hollow, 75 ft. below cor., drains NW. Ascend.

62.50 Ridge, 250 ft. high, brs. E. and W.

Descend over rolling hills.

80.00 Set a quartzite stone $20 \times 16 \times 4$ ins., 15 ins. in the ground, for N. $\frac{1}{4}$ sec. cor. bet. secs. 3 and 4, marked N $\frac{1}{4}$ S on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

117.03 Intersect the S. bdy. of T. 11 S., R. 19 W., 17.66 chs. E. of the $\frac{1}{4}$ sec. cor. of sec. 33, at which intersection determined by flagging the line between adjacent corners, I set a quartzite stone $20 \times 8 \times 6$ ins., 15 ins. in the ground, for the closing cor. of secs. 3 and 4, marked C C on S., with 3 notches on E. and 3 notches on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Nov. 26, 1914.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

From a point 3 lks. S. of the tangent, at the cor. of secs. 20, 21, 28 and 29, on S. bdy. of the Goshute Indian Reservation, I deflect an angle of 90° from my back sight to the north, and run

N. $0^\circ 02'$ W. on a true line bet. secs. 20 and 21.

Over very rough mountainous country, sparsely covered with grass and low sage brush, descending.

17.00 Swale drains NE.

32.00 S. fork of Johnson Creek, 12 lks. wide, 3 to 5 ins. deep, course NW. in Johnson Canyon, clear mountain water.

40.00 Set a quartzite stone $14 \times 9 \times 8$ ins. 10 ins. in the ground, for $\frac{1}{2}$ sec. cor. bet. secs. 20 and 21, marked $\frac{1}{2}$ S on W. face, from which -

An aspen 10 ins. dia. brs. S. $40^\circ 45'$ E., 134 lks. dist.
Mtd. $\frac{1}{2}$ S 21 B T.

An aspen 5 ins. dia. brs. S. $4^\circ 45'$ W., 212 lks. dist.
Mtd. $\frac{1}{2}$ S 20 B T.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on S. slope of spur projecting 3.00 chs. W., and is about 100 ft. above the creek, on N. edge of scattered timber, brs. E. and W.

40.35 Falls 40 lks. W. of Rager's old cor., - a quartzite stone $14 \times 9 \times 8$ ins., which I remove and use for my cor. I destroy his mound of stone W. of cor.

41.50 Descend.

47.16 Creek, 10 lks. wide, course W., 2 to 3 inches deep in Erickson Canyon, 150 ft. below the $\frac{1}{2}$ sec. cor. and which joins Johnson Canyon 5.00 chs. W.

Thence abrupt ascent.

67.80 Top of spur projects 10.00 chs. W. Descend.

72.00 Hollow 75 ft. below spur drains SW. Ascend.

80.00 Set a quartzite stone $18 \times 12 \times 8$ ins., 12 ins. in the ground, for the cor. of secs. 16, 17, 20 and 21, marked with 3 notches on S. and 4 notches on E. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on side hill sloping to SW., and is about 750 ft.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

above Johnson Canyon.

Rager's old cor. brs. N. 62° E., 69 lks. dist. I destroy name.

East on a random line bet. secs. 16 and 21.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.20 Falls 5 lks. S. of cor. of secs. 15, 16, 21 and 22,

Thence I run

S. 80° 58' W. on a true line bet. secs. 16 and 21.

Steep descent over rocky mountainous country.

10.00 Head of small hollow drains SW., Ascend.

12.40 Enter dense mahogany timber, 2.00 chs. wide and 5.00 chs.

long, brs. NE. and SW.

23.00 Top of ridge, brs. N. 80° E. and SW. 2.00 chs. Descend.

39.48 Falls 18 lks. S. of Rager's old $\frac{1}{4}$ sec. cor., - a quartzite stone 10x5x7 ins., mka. $\frac{1}{4}$ on N. and witnessed by a mound of stone to the North, - which cor. I destroy.

40.10 Set a quartzite stone 18x7x5 ins. 14 ins. in the ground for $\frac{1}{4}$ sec. cor. bet. secs. 16 and 21, marked $\frac{1}{4}$ S on N. Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Cor. falls on N. side of ridge near top.

49.30 Top of ridge, brs. NW. and S. 80° E. descend, through low sage brush and sparse grass.

80.20 The cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, rocky and gravelly, 3rd rate.

Dense timber, mahogany, 2.00 chs.

Sage brush, 78.20 chs.

N. 0° 2' W. bet. secs. 16 and 17.

Ascending, over mountainous land, covered with low sage brush and thin grass.

7.25 Top of ridge, brs. E. and W. Descend into

20.00 Little Brackson Canyon course W. 150 ft. below top of ridge. Ascend.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains	
25.10	Top of spur, which projects 10.00 chs. west, 100 ft. above canyon. Descend.
32.00	Enter mahogany and cedar, brs. E. and W.
32.60	Hollow course W., 100 ft. below top of spur. Ascend 90 ft.
36.60	Top of spur projects 10.00 chs. W. Descend.
38.50	Leave mahogany and cedar timber, brs. E. and W.
40.00	Set a limestone 14x6x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. bet. secs. 16 and 17, marked $\frac{1}{4}$ S on W. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. A mahogany 12 ins. dia. brs. S. $5^{\circ}30'$ E., 114 lks. dist. Mkd. $\frac{1}{4}$ S 16 B T. A mahogany 12 ins. dia. brs. S. $9^{\circ}30'$ W., 200 lks. dist. Mkd. $\frac{1}{4}$ S 17 B T. Cor. falls 1.00 ch. NW. of mahogany grove and 500 ft. above Skinner or Cremate Canyon. The old cor., - a limestone 14x6x5 ins., brs. S. $83^{\circ}00'$ E., 52 lks. dist. I destroy this cor. Continue descent.
62.80	Creek, 15 lks. wide, 2 to 4 inches deep, course W., in Cremate Canyon. Ascend.
63.20	Drag road for logs in canyon, brs. E. and W.
73.95	Top of ridge 400 ft. above canyon, brs. E. and W. Descend.
80.00	Set a limestone 13x7x7 ins. 9 ins. in the ground, marked with 4 notches on E. and 4 on S., for the cor. of secs. 8, 9, 16 and 17. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Cor. falls on N. slope of ridge 150 ft. from top and 100 ft. above hollow. Land, rough and mountainous. Soil, 3rd rate. Grazing land. No timber.

	Thence I run N. $89^{\circ}58'$ E. on a random line bet. secs. 9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Falls 14 lks. N. of the cor. of secs. 9, 10, 15 and 16. Thence I run

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

N. 89° 56' W. bet. secs. 9 and 16.

Descending over mountainous land, covered with low sage brush.

40.07 Set a quartzite stone 15x8x5 ins. 10 ins. in the ground for the $\frac{1}{4}$ sec. cor. bet. secs. 9 and 16, marked $\frac{1}{4}$ S on N. Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

Cor. falls 100 ft. N. of and 40 ft. above drain to West.

Rager's old cor., - a quartzite stone 15x8x5 ins., brs.

S. 40° E., 1.03 chs. dist., witnessed by a mound of stone to the north. I destroy all evidence of this cor.

43.60 Head of canyon course N. 70° W. Ascend gradually.

52.00 Descend.

80.14 The cor. of secs. 8, 9, 16 and 17.

Land, mountainous.

Soil, rocky, 3rd and 4th rate.

No timber. Low sage brush; - grazing land.

N. 0° 2' W. bet. secs. 8 and 9.

Over mountainous land, covered with low sage brush; descending.

3.00 Canyon drains W.; 200 ft. below sec. cor.

Begin abrupt ascent.

14.20 Top of ridge, 300 ft. above canyon, brs. E. and W. Descend.

22.50 Canyon, 200 ft. deep, course W. Ascend.

31.00 Top of spur, 150 ft. high, projects 5.00 chs. W. Descend.

33.00 Bend of hollow drains W., 100 ft. below spur. Ascend.

40.00 Set a quartzite stone 18x12x5 ins. 14 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9, marked $\frac{1}{4}$ S on W. Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Rager's old cor. brs. N. 42° 15' E., 91 lks. dist. and is a quartzite stone (size not taken) witnessed by a mound of stone to the West. I destroy this cor.

44.70 Top of ridge, brs. E. and W. 150 ft. above cor. Descend.

58.65 Top of spur, projects NW. 15.00 chs. Descend.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

76.00 Hollow 150 ft. deep, course NW. Ascend.

79.65 Top of ridge, brn. NW. and SE. 100 ft. above canyon.
Descend.

80.00 Set a quartzite stone 20x12x8 ins. 14 ins. in the ground,
for the cor. of secn. 4, 5, 8 and 9, marked with 5
notches on S. and 4 notches on E., from which -

An aspen 10 ins. dia. brn. N. 85° 45' E., 275 lks. dist.
10d. T 12 S R 19 W S 4 B T.

An aspen 9 ins. dia. brn. S. 70° 50' E., 450 lks. dist.
10d. T 12 S R 19 W S 9 B T.

No other trees available.

Build a mound of stone 2 ft. base, 1½ ft. high, W. of
cor.

Cor. falls near top of a narrow knife edged ridge bearing
NW. and SE.

Land, mountainous.
Soil, gravelly, 3rd rate.
No timber.

S. 89° 56' E. on a random line bet. secn. 4 and 9.

40.00 Set temp. ¼ sec. cor.

79.94 Falls 13 lks. N. of the cor. of secn. 3, 4, 9 and 10.

Thence I run

N. 89° 50' W., on a true line bet. secn. 4 and 9.

Through scattered aspen timber, ascending gradually.

20.00 Leave timber, brn. N. and S. Descend.

39.97 Set a quartzite stone 18x12x5 ins. 14 ins. in the ground,
for the ¼ sec. cor. bet. secn. 4 and 9, marked ¼ S on N.

Build a mound of stone 2 ft. base, 1½ ft. high, N. of cor.

77.30 Creek, 10 lks. wide, 2 ins. deep, clear water, course
N. 80° W. in canyon 100 ft. deep. Ascend abruptly.

79.94 The cor. of secn. 4, 5, 8 and 9.

Land, mountainous.
Soil, gravelly, 3rd rate.
Aspen timber on E. portion of line.

N. 0° 2' W. bet. secn. 4 and 5.

Over heavy rolling land, covered with low sage brush;
descending N. slope of ridge.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 2.50 Creek, 6 lks. wide, 2 ins. deep in canyon, drains W.
Ascend.
- 22.25 Top of ridge, 250 ft. above creek, brs. NW. and E.
Descend.
- 40.00 Set a quartzite stone 16x12x6 ins., 12 ins. in the ground
for the $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5, marked $\frac{1}{4}$ S on
W., from which a pinion 6 ins. dia. brs. N. 22° E., 214
lks. dist., mkd. $\frac{1}{4}$ S 4 B T, and a cedar 14 ins. dia.
brs. N. 21° 15' W., 214 lks. dist., marked $\frac{1}{4}$ S 5 B T.
Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of
cor.
Cor. falls near bottom of hollow 50 ft. S. of sharp bend
in drain^{south} of cedar clump.
- 41.40 Hollow 20 ft. below $\frac{1}{4}$ sec. cor. drains N. 75° W.
Thence ascend through scattered cedars and pines.
- 53.00 Top of ridge, 100 ft. above hollow, brs. N. 75° W. and
SE. Descend.
- 67.20 Hollow 100 ft. deep drains NW. Ascend.
- 76.37 Top of ascent; thence rolling land.
- 80.00 Set a quartzite stone 30x16x10 ins. 18 ins. in the ground
for north $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5, marked N $\frac{1}{4}$ S
on W. Build a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high,
W. of cor.
- 116.70 Intersect the S. bdy. of T. 11 S., R. 19 W., 18.18 lks.
E. of the $\frac{1}{4}$ sec. cor. of sec. 32, the intersection
being determined by flagging the line between the two
adjacent corners, at which intersection I set a quart-
zite stone 18x10x7 ins., 12 ins. in the ground, for the
C.C. of secs. 4 and 5, marked C C on S., 4 notches on
E. and 2 notches on W. Build a mound of stone 2 ft.
base, 1 $\frac{1}{2}$ ft. high, S. of cor.
From this cor., Rager's old C.C., a quartzite stone 12x7x6
ins., brs. N. 89° 30' E., 75 lks. dist., mkd. C C on S.,
and witnessed by a mound of stone to the south. I des-
troy this cor.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

From a point on the random tangent line 8 lks. S. of the cor. of secs. 19, 20, 29 and 30, I deflect an angle of 90° to the N. from the tangent, and with measurement from the cor., I run

N. $0^\circ 3'$ W. bet. secs. 19 and 20.

Descending over rough, mountainous land, covered with dense spruce and mahogany.

20.80 Drain in dry creek bed of the W. fork of Johnson Canyon, course NE., 600 ft. below the sec. cor.

Ascend through spruce and mahogany timber, brs. E. and W.

24.75 Top of spur 150 ft. above canyon, projects 5.00 chs. E.

Enter dense mahogany with scattered spruce, brs. NW. and E. Thence descend.

27.70 Drain to SE., 150 ft. below spur. Ascend.

32.11 Top of limestone pinnacle 100 ft. high.

39.45 Top of rock ledge, 50 ft. high.

40.00 Set a limestone $16 \times 8 \times 7$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. bet. secs. 19 and 20, marked $\frac{1}{4}$ S on W. face, from which a white pine 10 ins. dia. brs. S. $21\frac{1}{2}^\circ$ E., 26 lks. dist., marked $\frac{1}{4}$ S 20 B T. A mahogany 8 ins. dia. brs. N. 21° W., 50 lks. dist., marked $\frac{1}{4}$ S 19 B T.

Cor. falls on steep SW. slope of mountain 150 ft. above canyon, a few hundred feet West of the cor.

54.00 Top of ridge, 300 ft. above cor., brs. N. 75° W. and S. 80° E.

56.93 Leave timber of mahogany, cedar and spruce, brs. NE. and SW.

65.40 Hollow, 200 ft. below ridge, course SE. Ascend.

70.10 Enter scattered mahogany, brs. E. and W.

72.50 Top of ridge, 200 ft. above hollow.

Leave timber, brs. N. and W.

80.00 Set a limestone $20 \times 12 \times 8$ ins., 15 ins. in the ground, for the cor. of secs. 17, 18, 19 and 20, marked with 5 notches on E. and 3 on S. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on N. slope of ridge, 120 ft. below top.

Land, mountainous.

Soil, rocky and gravelly.

Timber, mahogany, spruce and cedar.

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

East on a random line bet. secs. 17 and 20.

40.00 Set temp. stake for $\frac{1}{4}$ sec. cor.

80.22 Falls 3 lks. S. of the cor. of secs. 16, 17, 20 and 21.

Thence I run

S. $89^{\circ} 59'$ W. bet. secs. 17 and 20.

Over mountainous land, descending through sage brush
and scattered mahogany and pinon..

25.00 Wagon road, brs. N. and S.

26.50 Johnson Creek, 12 lks. wide, 2 ins. deep in canyon course
N., 800 ft. below corner.

28.00 Ascend abruptly through spruce and mahogany timber.

40.11 Set a limestone $16 \times 8 \times 8$ ins. 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. bet. secs. 17 and 20, marked $\frac{1}{4}$ S on N. face,
from which a spruce 12 ins. dia. brs. N. $64\frac{1}{2}^{\circ}$ W., 148
lks. dist., marked $\frac{1}{4}$ S 17 B T, and a pinon 16 ins.
dia. brs. S. 27° W., 156 lks. dist., marked $\frac{1}{4}$ S 20 B T.
Cor. falls 500 ft. above Johnson Canyon near top of ridge.

40.31 Falls 12 lks. S. of Rager's $\frac{1}{4}$ sec. cor., - a limestone
 $14 \times 10 \times 3$ ins. in a small mound of stone, properly marked.
I destroy all trace of this old cor.

42.30 Top of spur 175 ft. above canyon next W.

52.70 Canyon course NE. Ascend abruptly.

78.00 Leave mahogany and spruce timber, brs. N. and S.

80.22 The cor. of secs. 17, 18, 19 and 20.

Land, rough and mountainous.
Soil, 3rd and 4th rate. Timber, mahogany, pine and spruce.
Sage brush undergrowth. Nov. 6, 1914.

West on a random line bet. secs. 18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.12 Falls 9 lks. S. of the cor. of secs. 13, 18, 19 and 24,
on W. bdy. of Tp., previously described.

Thence I run

S. $89^{\circ} 56'$ E. on a true line bet. secs. 18 and 19.

Descending gradually along S. slope of mountain, through
sage brush, and scattered mahogany.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 14.20 Begin ascent.
- 26.05 Top of ridge, 200 ft. above sec. cor., brs. SE. and NW.
Leave mahogany timber; begin descent.
- 38.12 Set a limestone 22x8x8 ins., 16 ins. in the ground, for
the $\frac{1}{4}$ sec. cor. bet. secs. 18 and 19, marked $\frac{1}{4}$ S on N.
face, from which a balsam 8 ins. dia. brs. N. $27^{\circ}40'$ E.,
33 lks. dist., marked $\frac{1}{4}$ S 18 B T, and a spruce 14
ins. dia. brs. S. $0^{\circ}30'$ E., 67 lks. dist., marked $\frac{1}{4}$ S 19
B T.
Cor. falls on NE. slope of mountain at W. edge of timber,
bearing N. and S.
- 38.59 Ranger's old $\frac{1}{4}$ sec. cor. brs. N., 7 lks. dist.
I destroy all evidence of same.
- 42.70 Leave spruce and pine timber, brs. N. and S.
- 50.00 Hollow, 300 ft. below the $\frac{1}{4}$ sec. cor., course NE.
Begin ascent.
- 65.65 Top of spur, projects 8.00 chs. N. Begin descent.
- 78.12 The cor. of secs. 17, 18, 19 and 20.
Land, mountainous.
Soil, rocky, 3rd and 4th rate.
Timber, spruce, pine, and mahogany.
Undergrowth of sage brush.
-
- N. $0^{\circ}3'$ W. bet. secs. 17 and 18.
Over heavy rolling brush land, descending, to N.
- 16.50 Enter scattered mahogany, brs. E. and W.
- 24.90 Top of spur, projects 5.00 chs. E. Descend.
- 36.20 Dry creek bed in canyon, 500 ft. below the sec. cor.
drains SE.
- 40.00 Set a limestone 18x12x5 ins., 13 ins. in the ground, for
the $\frac{1}{4}$ sec. cor. bet. secs. 17 and 18, marked $\frac{1}{4}$ S on W.,
from which a pinon 16 ins. dia. brs. N. $4^{\circ}15'$ E., 138 lks.
dist., marked $\frac{1}{4}$ S 17 B T, and a mahogany 12 ins. dia.
brs. N. $6^{\circ}30'$ W., 125 lks. dist., marked $\frac{1}{4}$ S 18 B T.
Cor. falls on S. slope of ridge, 150 ft. above canyon.
- 40.32 The old $\frac{1}{4}$ sec. cor., - a limestone 18x12x5 ins. firmly
set, and witnessed by a mound of stone, brs. E. 34 lks.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

dist. I destroy all trace thereof.

47.15 Top of ridge, 150 ft. above the $\frac{1}{4}$ sec. cor., hrs. SE. and NW. Descend.

60.00 Hollow 100 ft. below ridge, drains SE. Ascend.

74.45 Top of ridge, hrs. E. and W. Descend.

80.00 Set a limestone 24x18x5 ins. 18 ins. in the ground, for the cor. of secs. 7, 8, 17 and 18, marked 5 notches on E. and 4 notches on S., - from which

A red cedar 18 ins. dia. hrs. N. $67\frac{1}{2}^{\circ}$ E., 190 lks. dist.
Mkd. T 12 S R 19 W S 8 B T.

A mahogany 8 ins. dia. hrs. S. $78^{\circ}30'$ E., 18 lks. dist.
Mkd. T 12 S R 19 W S 17 B T.

A balsam 8 ins. dia. hrs. N. $47^{\circ}15'$ W., 177 lks. dist.
Mkd. T 12 S R 19 W S 7 B T.

No other tree available.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls on E. slope of mountain 200 ft. below ridge.

Rager's old cor., which is a cross cut on a rock ledge witnessed by a mound of stone to the W., hrs. N. $50\frac{1}{2}^{\circ}$ E., 44 lks. dist. I destroy this cor.

Nov. 18, 1914.

N. $89^{\circ}59'$ E. on a random line bet. secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.26 Intersect the cor. of secs. 8, 9, 16 and 17.

Thence I run

S. $89^{\circ}59'$ W. on a true line bet. secs. 8 and 17.

Through sage brush, descending gradually towards Johnson Canyon.

21.00 Begin steep descent into Johnson Canyon.

33.20 Dry creek bed in Johnson Canyon, course N.

33.88 Road in canyon hrs. N. and S. Thence steep ascent through mahogany pines and cedar.

39.13 Rager's old cor. hrs. North 50 lks. dist., and is a limestone 12x12x4 ins. loosely set in a small mound of stone.
I destroy all trace of this cor.

--	--	--

Blank

Page

--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

40.13 Set a quartzite stone 18x12x4 ins., 13 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 17, marked $\frac{1}{4}$ S on N., from which a mahogany 12 ins. dia. brs. N. $82\frac{1}{4}^{\circ}$ E., 47 lks. dist., marked $\frac{1}{4}$ S S B T, and a mahogany 10 ins. dia. brs. S. $55\frac{1}{4}^{\circ}$ E., 76 lks. dist., marked $\frac{1}{4}$ S 17 B T.

45.00 Begin steep ascent of mountain, through scattered mahogany spruce and pinon.

80.26 The cor. of secs. 7, 8, 17 and 18.

Land, mountainous and rough.

Soil, 3rd rate.

Scattered pinon, mahogany and spruce timber.

Dense undergrowth of sage brush.

N. $89^{\circ} 56'$ W. on a random line bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.02 Falls 43 lks. N. of the cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp., previously described.

Thence I run

N. $89^{\circ} 45'$ E. on a true line bet. secs. 7 and 18.

Over mountainous land, descending over E. slope, through sage brush.

13.00 Foot of descent in saddle at head of Stud Horse Canyon.
Begin ascent.

38.02 Set a limestone 20x6x4 ins. 14 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 18, marked $\frac{1}{4}$ S on N., from which a mahogany 8 ins. dia. brs. N. $59\frac{1}{4}^{\circ}$ E., 130 lks. dist. marked $\frac{1}{4}$ S 7 B T, and a yellow pine 32 ins. dia. brs. S. $27\frac{1}{2}^{\circ}$ E., 233 lks. dist., marked $\frac{1}{4}$ S 18 B T.

After diligent search, no trace of Rager's old $\frac{1}{4}$ sec. cor. is found.

40.80 Enter mahogany timber brs. SE. and NE. Begin ascent.

57.30 Top of ridge, 500 ft. above the $\frac{1}{4}$ sec. cor., brs. NE. and SE. Leave timber. Descend 500 ft. to

78.02 The cor. of secs. 7, 8, 17 and 18.

Land, rough and mountainous.

Soil, 2nd and 3rd rate.

Timber, mahogany and pinon.

Heavy growth of sage brush.

Nov. 18, 1914.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

N. 0° 3' W. on a true line bet. secs. 7 and 8.

Over very mountainous land, descending through sage brush and scattered mahogany and cedar timber.

7.00 Head of canyon 100 ft. below the sec. cor.; drain course S. 75° N. Thence ascend.

20.00 Top of ridge, 200 ft. high, hrs. E. and W. Descend.

40.00 Set a limestone 17x8x4 ins. 12 ins. in the ground, for the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 8, marked $\frac{1}{4}$ S on W. face, from which a pinon, 8 ins. dia. hrs. S. 18° 30' E. 98 lks. dist., marked $\frac{1}{4}$ S S B T, and a mahogany 8 ins. dia. hrs. N. 76° 00' W., 223 lks. dist., marked $\frac{1}{4}$ S 7 B T. Cor. falls on side hill 1500 ft. above Johnson Canyon. Leave scattered timber, hrs. E. and W.

41.00 Ranger's old $\frac{1}{4}$ sec. cor. hrs. W., 4 lks. dist. I destroy all trace of same.

78.00 Enter scattered mahogany and pinon,, hrs. E. and W.

80.00 Set a limestone 20x10x3 ins., 15 ins. in the ground for the cor. of secs. 5, 6, 7 and 8, marked with 5 notches on E. and 5 on S., from which -

A 4-inch branch of a mahogany 8 ins. dia. hrs. N. 44 $\frac{1}{2}$ ° E., 41 lks. dist. Mkd. T 12 S R 19 W S 5 B T.

A mahogany 10 ins. dia. hrs. S. 56 $\frac{1}{2}$ ° E., 227 lks. dist. Mkd. T 12 S R 19 W S 8 B T.

A mahogany 18 ins. dia. hrs. S. 34° W., 57 lks. dist. Mkd. T 12 S R 19 W S 7 B T.

A pinon, 5 ins. dia. hrs. N. 77° W., 13 lks. dist. Mkd. T 12 S R 19 W S 6 B T.

Land, mountainous.
Soil, 2nd and 3rd rate.
Timber, mahogany, cedar and pinon.
Dense undergrowth of sage.

Nov. 23, 1914.

N. 89° 59' E. on a random line bet. secs. 5 and 8.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Falls 12 lks. N. of the cor. of secs. 4, 5, 8 and 9.

Thence I run

N. 89° 56' W. on a true line bet. secs. 5 and 8.

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

Over mountainous land, covered with heavy growth of sage and scattered buck brush, ascending.

0.20 Ridge brs. NW. and SE.

Thence descend abruptly into

4.90 Canyon, 100 ft. deep, course NW. Ascend.

14.00 Top of ridge, 125 ft. high, brs. NW. and SE.

Thence descend.

27.00 Dry creek bed in Johnson Canyon, 500 ft. below the sec. cor.; drain course NE.

27.31 Road, brs. N. and S. Ascend.

30.00 Enter mahogany, pine and cedar timber, brs. N. and S.

40.05 Set a limestone 20x12x8 ins., 15 ins. in the ground, for $\frac{1}{2}$ sec. cor. bet. secs. 5 and 8, marked $\frac{1}{2}$ S on N. face, from which a mahogany 4 ins. dia. brs. N. $13\frac{1}{2}^{\circ}$ W., 75 lks. dist., marked $\frac{1}{2}$ S 5 B T, and a pinon, 16 ins. dia. brs. S. 52° E., 127 lks. dist., marked $\frac{1}{2}$ S 8 B T.

40.13 Rager's old cor. brs. North 133 lks. dist. I destroy all trace thereof.

44.44 Top of ridge, 100 ft. above corner, projects 10.00 chs. SE. Thence descend.

58.00 Stud Horse Canyon, course SE. Ascend abruptly.

80.10 The cor. of secs. 5, 6, 7 and 8.

Land, rough and mountainous.
Soil, 3rd and 4th rate.
Timber, pinon, mahogany, and spruce.
Undergrowth, sage brush.

S. $89^{\circ} 45'$ W. on a random line bet. secs. 6 and 7.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

77.92 Falls 14 lks. S. of the cor. of secs. 1, 6, 7 and 12, on W. bdy. of Tp., previously described.

Thence I run

N. $89^{\circ} 51'$ E. on a true line bet. secs. 6 and 7.

Descending, through dense mahogany, cedar and pinon timber.

18.00 Leave dense timber; thence through scattered timber.

25.00 Hollow, 200 ft. below cor., drains SE. Ascend.

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

- 30.00 Top of spur to SE., 70 ft. above drain. Begin descent.
- 37.63 Rager's old $\frac{1}{2}$ sec. cor. brs. N., 138 lks. dist.
I destroy all traces thereof.
- 37.77 Seeing that the true point for the $\frac{1}{2}$ sec. cor. bet. secs.
6 and 7 will fall in unsafe place, I therefore, at this
point, set a limestone 24x8x5 ins., 18 ins. in the
ground for W.C., marked W C on E. face and $\frac{1}{2}$ S on N.
face, from which a pinon, 12 ins. dia. brs. N. 38° W.,
116 lks. dist., marked W C $\frac{1}{2}$ S 6 B T.
No other trees within limits.
Build a mound of stone 2 ft. base, 1 $\frac{1}{4}$ ft. high, N. of
cor.
- 37.92 True point for $\frac{1}{2}$ sec. cor. falls in drain in Stud Horse
Canyon course N. 80° E.
Leave scattered timber, ascend through heavy sage brush.
- 55.20 Top of spur, 75 ft. high, projects 3.00 chs. N. Descend.
- 57.20 South fork of Stud Horse Canyon, brs. NE. and SW.
Ascend steep west slope.
- 68.50 Top of ridge, brs. N. and S., 700 ft. above canyon.
Descend.
- 70.00 Enter dense mahogany and pine timber, brs. N. and S.
- 77.92 The cor. of secs. 5, 6, 7 and 8.
Land, mountainous.
Soil, 3rd rate.
Timber, mahogany, pinon, spruce and pine, with sage
brush undergrowth.
-
- N. 0° 3' W. on a true line bet. secn. 5 and 6.
Over mountainous land, through sage brush and scattered
mahogany timber, descending.
- 20.50 Stud Horse Canyon, 450 ft. below the sec. cor. drains
S. 65° E. Begin ascent through dense pinon and mahog-
any.
- 30.46 Short mining tunnel, 10 lks. E. of line, course N.
- 33.85 Leave dense mahogany, brs. NE. and SW.
Thence scattered timber.
- 40.00 Set a limestone 16x12x6 ins. 12 ins. in the ground, for

Blank

Page

Subdivision lines in T. 12 S., R. 19 W.

Chains

$\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, marked $\frac{1}{4}$ S on W. face, from which a mahogany 12 ins. dia. brs. S. 10° E., 226 lks. dist., marked $\frac{1}{4}$ S 5 B T.

Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Cor. falls in open place 600 ft. above canyon bed.

41.66 Rager's old cor. brs. W., 15 lks. dist., and is a limestone 12x8x6 ins. witnessed by a mound of stone to the W. I destroy all trace of this cor.

46.51 Top of ridge, 125 ft. above cor., brs. N. 75° W. and S. 75° E.

From this point U.S. Mineral Monument No. 1 brs. N. 66° W., 188 lks. dist., situated on the summit of this nearly barren ridge. This monument is a wooden post 6x6 ins. 5 ft. high, set in a mound of stone and marked U S M M No. 1, with bearing trees situated and marked as described in original notes.

Ibapah Peak brs. N. 74° $30'$ E. about 6 miles dist., instead of S. 74° $30'$ E. about 15 miles.

Descend over NE. slope covered with sage brush.

73.93 Deserted cabin brs. N. 61° W., about 4.00 chs. dist.

79.75 Canyon, course NE., 1000 ft. below the top of a ridge. Ascend.

80.00 Set a limestone 16x10x5 ins., 12 ins. in the ground, for north $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, marked N $\frac{1}{4}$ S on W. face. No bearing trees available. Build a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Ascend through scattered mahogany and cedar.

87.92 Top of ridge, 150 ft. above cor., brs. SE. and NW. Descend.

98.00 Hollow drains E. Ascend.

116.92 Intersect the N. bdy. of the Tp., 21.52 chs. W. of the cor. of secs. 31 and 32, T. 11 S., R. 19 W., a flag at each adjacent cor. being plainly visible, at which point I set a limestone 20x12x5 ins., 15 ins. in the ground,

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 12 S., R. 19 W.

Chains

for the closing cor. of secn. 5 and 6, marked C C on S.,
5 notches on N. and 1 notch on W.

No trees for B.T.s available.

Build a mound of stone 2 ft. base, 1½ ft. high, S. of
cor.

After diligent search, no trace of the old cor. is found.

Note: On his line bet. secn. 5 and 6, Rager reports four
closing corners set on boundaries of Mineral claims.
After diligent search, no trace of any of these
corners is found.

Land, mountainous.

Soil, 3rd rate.

Timber, mahogany, cedar, spruce and piñon.

Heavy sage brush in north portion of section.

Nov. 24, 1914.

Blank

Page

GENERAL DESCRIPTION

This township is very rough and mountainous, except that the extreme NW. portion of sec. 3, most of Sec. 4 and the E. portion of sec. 5, while heavily rolling, are less broken than the rest. The elevation ranges from about 7500 to 11,500 feet, and the township is valuable chiefly for its timber, and grazing.

The Queen of Sheba mine, lying in sec. 2, has been worked for many years and has produced considerable gold but no other mines are being worked in the limits of the township.

The east portion of the township is chiefly quartzite formation, and the west half limestone.

There is plenty of good water at the heads of the different streams, all of which are tributary to Johnson Creek, but the latter goes dry before reaching the northern limits of the township.

The unsurveyed portion lying within the reservation was reserved by direction of the Indian Agent as a timber reserve, and was therefore not subdivided.

H. L. Baldwin

Topographer.

Blank

Page

Denver, Colorado, *March 16* 1916.

I hereby certify that the survey of subdivision lines in T. 12 S., R. 19 W., within the Goshute Indian Reservation, Salt Lake Meridian, Utah, was made under my direction and supervision, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated May 21, 1914, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

A. F. Drummington

Topographer in Charge
of Indian Surveys.

FINAL OATH OF UNITED STATES SURVEYOR.

RECORDED IN THE OFFICE OF THE SURVEYOR GENERAL

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General on the bearing date of this day of 1911, I have well, faithfully, and lawfully in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

The Book of

of the Section, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction, and I do further solemnly swear that all the corners of said survey have been established and guaranteed in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of said survey.

U. S. Surveyor.

Subscribed by said and sworn to before me
this day of 1911



APPROVAL.

OFFICE OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

DEPARTMENT OF THE INTERIOR

Washington, D.C., Dec 4, 1911

The foregoing field notes of the survey of subdivision lines in T. 12 N., R. 19 W., within the Seabute Indian Reservation, Salt Lake Base and Meridian, Utah,

warranted by M.L. Baldwin, Topographer, under direction of A.Y. Dunnington, Topographer in Charge of Indian Surveys,

under his special instructions dated May 31, 1911, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signed) Clay Tallman
Commissioner of the General Land Office

I certify that the foregoing transcript of the field notes of the above described surveys in the Seabute Ind. Res'n., Utah, has been correctly copied from the original notes on file in this office.

Clay Tallman
Commissioner of the General Land Office

Blank

Page

Blank

Page

Blank

Page

Blank

Page

BOOK A-418

FIELD NOTES

OF THE

Survey of:

Section lines bet. Secs. 35 and 36, and 25 and 36, being a portion of the Ooshute Indian Reservation boundary.

Resurvey of:

Section lines bet. Secs. 8 and 9, 5 and 8, 7 and 8, 4 and 5, and 3 and 8.

Survey of subdivision lines within Secs. 5 and 8.

TOWNSHIP 11 SOUTH RANGE 19 WEST

within the Ooshute Indian Reservation

Of the Salt Lake Meridian,

in the State of Utah

EXECUTED BY

H. L. Baldwin, Topographer

In the capacity of U. S. Surveyor, under instructions dated May 21, 1914,

Commissioner of the General Land Office to A. F. Dunnington
issued by the United States Surveyor General for the Survey in Charge of Indian Surveys.

which were approved by the Commissioner of the General Land

Department, pursuant to authority contained in the Act of

Congress dated March 3, 1879, Act

Survey commenced Nov. 10, 1914

Survey completed Nov. 26, 1914.

FIELD NOTES

BOOK-A-418

INDEX DIAGRAM.

Township 11 South Range 17 West

13	1	2	3	4	5
14	6	7	8	9	10
15	11	12	13	14	15
16	16	17	18	19	20
17	21	22	23	24	25
18	26	27	28	29	30
19	31	32	33	34	35
20	36	37	38	39	40
21	41	42	43	44	45
22	46	47	48	49	50
23	51	52	53	54	55
24	56	57	58	59	60
25	61	62	63	64	65
26	66	67	68	69	70
27	71	72	73	74	75
28	76	77	78	79	80
29	81	82	83	84	85
30	86	87	88	89	90
31	91	92	93	94	95
32	96	97	98	99	100

Subdivision lines in T. 11 S., R. 19 W.

Chains

Survey commenced November 10, 1914, by H. L. Baldwin, Topographer, and executed with a Buff & Buff light weight transit No. 9107, with solar attachment; the horizontal limb being provided with two double verniers placed 180° apart and reading to single minutes of arc.

The instrument was placed in correct adjustment and tested frequently on a meridian established at camp and often on line, the high elevation and clear sky making Polaris observation possible at any time in mid, or late, afternoon.

Owing to the distance from the railroad and difficulty of transporting posts for marking corners, such could not be obtained until just before the close of the season, at which time posts were secured and used in the subdivision of secs. 5 and 8, T. 11 S., R. 19 W., into 10-acre tracts; consequently corners on township, range and section lines in Tps. 11 and 12 S., R. 19 W., and the restored north boundary of T. 13 S., R. 18 W., were marked by stone corners.

From the cor. of secs. 35 and 36, on the S. bdy. of Tp., previously described, which is an angle point on the reservation boundary, I deflect 90° 01' to the North from the random line run eastward, and with measurement from the corner, run

N. 0° 01' W. bet. secs. 35 and 36, along the E. bdy. of the Goshute Indian Reservation.

Through heavy pine, spruce and aspen timber, over large

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

boulders, along steep West slope of mountain, line being nearly level.

9.76 Begin steep descent.

15.95 A double pine 60 ins. dia. on line; I mark it with two notches on front and back.

33.70 Bottom of canyon, course W.

Thence ascend through mahogany, aspen and spruce timber, with undergrowth of manzanita.

40.00 Set a granite stone 16x14x4 ins., for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S on W. face, from which a white pine 10 ins. dia. brs. S. 30° E., 22 lks. dist., mtd. $\frac{1}{4}$ S 36 E T. and a white pine 10 ins. dia. brs. S. $27\frac{1}{2}^{\circ}$ W., 58 lks. dist., marked $\frac{1}{4}$ S 35 E T.

Cor. falls 300 ft. above canyon.

56.86 Top of ridge, 500 ft. above corner, brs. E. and W.

Thence steep descent, through dense spruce forest.

59.44 Spruce 12 ins. dia., on line, marked with 2 notches on front and back.

61.63 Spruce 16 ins. on line, notched same way.

60.00 For the cor. of sec. 25, 26, 35 and 36, which is also an angle point on the reservation boundary, I mark a cross (x) on the S. end of a large granite rock or ledge which faces E., 20x6x4 ft., with 1 groove on E. and 1 on S., and A P G I R on NW. face, from which a white pine 4 ins. dia. brs. N. 16° 10' E., 53 lks. dist. mtd. T 11 S R 19 W S 25 G I R E T.

A spruce 16 ins. dia. brs. S. 4° E., 41 lks. dist. mtd. T 11 S R 19 W S 36 A P G I R E T.

A white pine 9 ins. dia. brs. S. $62\frac{1}{2}^{\circ}$ W., 12 lks. dist. mtd. T 11 S R 19 W S 35 A P G I R E T.

A white pine 6 ins. dia. brs. N. 40° W., 51 lks. dist. mtd. T 11 S R 19 W S 26 A P G I R E T.

Cor. falls on side hill 1000 ft. below ridge to the S. and 300 ft. above nearest point of canyon northeast.

Land, rough and mountainous.

Soil, 3rd and 4th rate, rocks and boulders.

Granite pinnacles and ledges everywhere.

Nov. 10, 1914.

Blank

Page

Subdivision Lines in T. 11 S., R. 19 W.

Chains

From the cor. of secs. 25, 26, 35 and 36, I deflect $89^{\circ}59'$ to the East from the transit line from south, and run East on a random line bet. secs. 25 and 36, along the Goshute Indian Reservation boundary.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

67.31 Foot of granite pinnacle; impossible to chain over same.

Offset as follows:

South, 1.50 chs.; thence

East, 7.70 " ; thence

North, 1.50 " ; thence

East, 5.17 " to

80.18 Falls 30 lks. N. of true point for the cor. of secs. 25, 30, 31 and 36, on E. bdy. of Tp., previously described.

From the true point for the cor. of secs. 25, 30, 31 and 36, on E. bdy. of Tp., I run

N. $89^{\circ}47'$ W. on a true line bet. secs. 25 and 36, along the Goshute Indian Reservation boundary.

Very steep descent, - through dense spruce and pine timber.

5.17 Offset South, 1.50 chs.; thence

N. $89^{\circ}47'$ W., 7.70 chs.; thence

North, 1.50 chs., to foot of granite pinnacle 200 ft.

high. Thence N. $89^{\circ}47'$ W., continuing steep descent.

29.70 Top of granite ledge; precipitous descent.

31.30 Foot of granite ledge, 100 ft. high; continue steep descent.

40.09 Set a granite stone 20x9x4 ins. for $\frac{1}{4}$ sec. cor. bet. secs.

25 and 36, marked $\frac{1}{4}$ S on N. face, from which a spruce 28 ins. dia. brs. N. $5^{\circ}15'$ W., 26 lks. dist.,

marked $\frac{1}{4}$ S 25 B T., and a spruce 10 ins. dia. brs.

S. $33^{\circ}15'$ E., 45 lks. dist., marked $\frac{1}{4}$ S 36 B T.

45.10 Creek, 2 lks. wide, 2 ins. deep, course NW. Ascend.

70.70 Top of rocky spur from south; descent through aspen timber.

Subdivision lines in T. 11 S., R. 19 W.

Chains

.73.50 Hollow, 75 ft. below cor., drains N.; ascend to

80.18 The cor. of secs. 25, 26, 35 and 36.

Land, rocky and very mountainous.
Soil, rocky; chiefly ledges and boulders.
Timber, spruce, pine and aspen.

Nov. 11, 1914.

Subdivision of Secs. 5 and 8.

At the cor. of secs. 10, 11, 14 and 15, T. 11 S., R. 19 W., previously described (granite stone 12x8x8 ins. above ground, firmly set, and witnessed by a mound of stone to the west) I deflect an angle of $89^{\circ} 59'$ to the west from the meridian, ^{observed at this point} to a flag which I had previously set at the cor. of secs. 8, 9, 16 and 17, two miles to the westward, the bearing to the flag being N. $89^{\circ} 59' W.$

To further perpetuate the cor. of secs. 8, 9, 16 and 17, which is a granite stone 9x9x8 ins. above ground, firmly set and marked as described in original notes, I set an iron post 3 ft. long, 2 ins. dia., 28 ins. in the ground, north and alongside the stone, with brass cap stamped

T 11 S 8 8 in NW.
R 19 W 8 9 in NE.
S 16 in SE.
S 17 in SW.
1914 in S.

I then backsight to a flag at the cor. of secs. 10, 11, 14 and 15, which, allowing for convergency, brs. N. $89^{\circ} 59.5' E.$, and deflect therefore an angle of $89^{\circ} 59.5'$ and run

North on a random line retracing the E. bdy. of sec. 8.

40.16 Falls 2 lks. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9,

80.36 Intersect the cor. of secs. 4, 5, 8 and 9.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

REFERENCES

08 INCHES FOR SPACER, 1.000 TOL. 0.000, 0.010, 0.010, 0.010, 0.010

• 22. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Returning to the cor. of secs. 8, 9, 16 and 17,
thence I run

N. $0^{\circ} 2'$ W. on a true line bet. secs. 8 and 9 ($S\frac{1}{2}$).

Over nearly level land, through heavy sage brush.

- 40.16 The $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9, which is a water-worn
quartzite boulder, 8x8x6 ins. above ground, marked $\frac{1}{4}$ S
on N., witnessed by a mound of stone to W.

To further perpetuate this cor., north of and alongside
the stone, I set an iron post 3 ft. long, 1 inch in dia.,
26 ins. in the ground, with brass cap stamped

$\frac{1}{4}$ in N.
S 8 in W.
S 9 in E.
1914 in S.

Thence I run

N. $0^{\circ} 02'$ E. on a true line bet. secs. 8 and 9 ($N\frac{1}{2}$).

- 40.20 The cor. of secs. 4, 5, 8 and 9, which is a granite stone
8x6x6 ins. above ground, marked with 4 notches on S. and
4 notches on E., and witnessed by a mound of stone to
the West.

To further perpetuate this cor., north of and alongside
the stone, I set an iron post 3 ft. long, 2 ins. dia.,
26 ins. in the ground, with brass cap stamped

T 11 S S 5 in NW.
R 19 W S 4 in NE.
S 9 in SE.
S 8 in SW.
1914 in S.

Land, nearly level.

Soil, gravelly, 2nd rate..

At the cor. of secs. 4, 5, 8 and 9, I deflect an angle
from my backsight of $90^{\circ} 17'$ and run N. $89^{\circ} 43'$ W, on a
random line bet. secs. 5 and 8, setting temp. stakes at
intervals of 10.00 chs. on the W. half thereof.

- 40.23 Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8.

- 80.35 Intersect the cor. of secs. 5, 6, 7 and 8.

		U.S. GOVERNMENT PRINTING OFFICE	1967 O - 340-000	
--	--	---------------------------------	------------------	--

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Returning to the cor. of secs. 4, 5, 8 and 9,
thence I run

N. $89^{\circ} 43'$ W. on a true line bet. secs. 5 and 8.

- 40.23 The $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8, which is a quartzite stone 6x6x5 ins. above ground, marked $\frac{1}{4}$ on N. face, witnessed by a mound of stone alongside.

To further perpetuate this cor., north and alongside of the stone, I set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, with brass cap stamped

$\frac{1}{4}$ in W.
S 5 in N.
S 8 1914 in S.

- 50.26 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. bet. secs. 5 and 8, with brass cap stamped

$1/64$ in W.
S 5 in N.
S 8 1914 in S.

Build a mound of stone around the post.

- 60.29 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for W. $1/16$ sec. cor. bet. secs. 5 and 8, with brass cap stamped

W $1/16$ in W.
S 5 in N.
S 8 1914 in S.

Build a mound of stone around the post.

- 70.32 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. bet. secs. 5 and 8, with brass cap stamped

$1/64$ in W.
S 5 in N.
S 8 1914 in S.

Build a mound of stone around post.

- 80.35 The cor. of secs. 5, 6, 7 and 8, which is a quartzite stone 6x6x6 ins. above ground, firmly set, witnessed by a mound of stone to the W. To further perpetuate this cor., north and alongside of the stone, I set an iron post 3 ft. long, 2 ins. dia., 26 ins. in the ground with brass cap stamped

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains.

T 11 S S 6 in NW.
 R 19 W S 5 in NE.
 S 8 in SE.
 S 7 in SW.
 1914 in S.

Land, level.

Soil, gravelly, 2nd rate.

No timber; heavy sage undergrowth.

Cor. falls on line of a N. and S. wire fence.

 At the cor. of secs. 5, 6, 7 and 8, I deflect an angle
 of 89° 43' from my backsight to the south and run
 South on a random line bet. secs. 7 and 8, setting temp.
 stakes at intervals of 10 and 20 chs.

40.23 The $\frac{1}{4}$ sec. cor. bet. secs. 7 and 8, which is a limestone
 6x6x5 ins. above ground, marked $\frac{1}{4}$ on W., and witnessed
 by a mound of stone to the West. To further perpetu-
 ate this cor., north of and alongside I set an iron
 post 3 ft. long, 1 inch in diameter, 26 ins. in the
 ground, with brass cap stamped

$\frac{1}{4}$ in N.
 S 7 in W.
 S 8 in E.
 1914 in S.

The random line prolonged strikes the cor. of secs. 7, 8,
 17 and 18, but the distance thereto is not measured.

Thence I run

North on a true line bet. secs. 7 and 8. (N $\frac{1}{2}$).

Over level land, covered with dense sage brush.

20.12 At proportionate distance, set an iron post 3 ft. long,
 1 inch in dia., 26 ins. in the ground, for the N. 1/16
 sec. cor. bet. secs. 7 and 8, with brass cap stamped

N 1/16 in N.
 S 7 in W.
 S 8 in E.
 1914 in S.

Build a mound of stone around the post.

30.17 At proportional distance, set an iron post 3 ft. long,
 1 inch in dia., 26 ins. in the ground, for the 1/64
 sec. cor. bet. secs. 7 and 8, with brass cap stamped

OFFICIAL RECORDS
U.S. AIR FORCE
OFFICIAL RECORDS

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

1/64 in N.
8 7 in W.
8 8 in E.
1914 in S.

Build a mound of stone around the post.

40.23 The cor. of secs. 5, 6, 7 and 8.

From the random line at the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9, which has a bearing of North, I deflect an angle of $90^{\circ} 10'$ from the south, and run N. $89^{\circ} 50'$ W. on a random line through the middle of sec. 8.

40.00 Set temp. stake for center $\frac{1}{4}$ sec. cor.

80.40 Falls 10 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 8.

Returning to the $\frac{1}{4}$ sec. cor. bet. secs. 8 and 9, thence I run

N. $89^{\circ} 46'$ W. on a true line through the middle of sec. 8.

40.20 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for the center $\frac{1}{4}$ sec. cor. of sec. 8, with brass cap stamped

C $\frac{1}{4}$ S 8 in center
1914 in S.

Build a mound of stone around the post.

80.40 The $\frac{1}{4}$ sec. cor. bet. secs. 7 and 8.

At the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8, I deflect an angle of $89^{\circ} 43'$ to the right from the flag at the cor. of secs. 4, 5, 8 and 9, and run

South on a random line bet. the NE. and NW. quarters of sec. 8, setting temp. stakes at 10 and 20 chs.

40.22 Intersect the center $\frac{1}{4}$ sec. cor. of sec. 8.

Thence I run

North on a true line bet. the NE. and NW. quarters of sec. 8.

20.11 At proportional distance, set an iron post 3 ft. long,

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

1 inch in dia., 26 ins. in the ground, for the N. $1/16$ sec. cor. on the N. and S. $\frac{1}{4}$ sec. line of sec. 8, with cap stamped

N $1/16$ in W.
S 8 in E.
 $\frac{1}{4}$ in N.
1914 in S.

Build a mound of stone around the post.

30.16 At proportional distance, set an iron post 3 ft. long, 1 inch dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 8, with brass cap stamped

$1/64$ S in center
1914 in S.

Build a mound of stone around post.

40.22 The $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8.

From the N. $1/16$ sec. cor. bet. secs. 7 and 8,
thence I run

S. $89^{\circ} 44'$ E. on a random line towards a flag plainly visible at the N. $1/16$ sec. cor. on $\frac{1}{4}$ sec. line of sec. 8, setting temp. cors. at intervals of 10.00 chs.

40.16 Intersect the N. $1/16$ sec. cor. on $\frac{1}{4}$ sec. line of sec. 8.

Thence I run

N. $89^{\circ} 44'$ W. on a true line through the middle of the NW $\frac{1}{4}$ of sec. 8.

Over level land.

10.04 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 8, with brass cap stamped

$1/64$ S in center
1914 in S.

Build a mound of stone around the post.

20.08 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for the NW. $1/16$ sec. cor. of sec. 8, with brass cap stamped

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

NW 1/16 S 8 in center
1914 in S.

Build a mound of stone around the post.

- 30.12 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 8, with brass cap stamped

1/64 S in center
1914 in S.

Build a mound of stone around the post.

- 40.16 The N. 1/16 sec. cor. bet. secs. 7 and 8.

Land, level.
Soil, gravelly, 2nd rate.
Sage brush, entire distance.

From the 1/64 sec. cor. bet. secs. 7 and 8 which is 10.06 chs. South of the cor. of secs. 5, 6, 7 and 8, I run S. 89° 44' E. on a random line to a flag plainly visible, setting temp. cors. at intervals of 10.00 chs.

- 40.14 Intersect flag at the 1/64 sec. cor. of sec. 8 which is 10.06 chs. South of the 1/4 sec. cor. bet. secs. 5 and 8.

Thence I run

N. 89° 44' W. on a true line through the middle of the N 1/2 of the NW 1/4 of sec. 8.

Over level sage-brush land.

- 10.03 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 8, with brass cap stamped

1/64 S in center
1914 in S.

Build a mound of stone around the post.

- 20.07 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 8, with brass cap stamped

1/64 S in center
1914 in S.

Build a mound of stone around the post.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

30.10 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 8, with brass cap stamped

$1/64$ S in center
1914 in S.

Build a mound of stone around the post.

40.14 The $1/64$ sec. cor. bet. secs. 7 and 8, which is 10.06 chs. S. of the cor. of secs. 5, 6, 7 and 8.

Land, level.
Soil, 2nd rate.
Sage brush flat.

Nov. 26, 1914.

From the cor. of secs. 4, 5, 8 and 9, I run North on a random line bet. secs. 4 and 5.

30.00 Set temp. $1/64$ sec. cor.

40.20 Falls 2 lks. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5.

50.20 Set temp. $1/64$ sec. cor.

60.20 Set temp. N. $1/16$ sec. cor.

70.20 Set temp. $1/64$ sec. cor.

80.11 Falls 4 lks. E. of the C.C. of secs. 4 and 5 on N. bdy.

of Tp., previously described (in notes of the retracement of the 2nd Standard Parallel S.)

Move temp. cor. West $1\frac{1}{4}$, $2\frac{1}{4}$, 3, $3\frac{1}{2}$ and 4 lks., respectively.

Returning to the cor. of secs. 4, 5, 8 and 9, thence I run

N. $0^{\circ} 02'$ W. on a true line bet. secs. 4 and 5.

Over level, sage brush land.

30.15 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. bet. secs. 4 and 5, with brass cap stamped

$1/64$ in center
1914 in S.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Build a mound of stone around the post.

- 40.20 The $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5, which is a granite stone 6x8x8 ins. above ground, marked $\frac{1}{4}$ S on W., and witnessed by a mound of stone to the west. To further perpetuate this cor., north of and alongside the stone I set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, with brass cap stamped

$\frac{1}{4}$ in N.
S 5 in W.
S 4 in E.
1914 in S.

Note: The reported distance for the N. half of line bet. secs. 4 and 5 is 39.73 chs. I find it to be 39.91 chs. Therefore I set iron posts at proportional distances as follows:

- 50.24 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. bet. secs. 4 and 5, with brass cap stamped

$1/64$ in center
1914 in S.

Build a mound of stone around the post.

- 60.29 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for N. $1/16$ sec. cor. bet. secs. 4 and 5, with brass cap stamped

N $1/16$ in N.
S 5 in W.
S 4 in E.
1914 in S.

Build a mound of stone around the post.

- 70.33 Set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. bet. secs. 4 and 5, with brass cap stamped

$1/64$ in center
1914 in S.

Build a mound of stone around the post.

- 80.11 The C.C. bet. secs. 4 and 5, on N. bdy. of Tp., previously described (in notes of the retracement of the 2nd Standard Parallel S.)
-

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

From the cor. of secs. 5, 6, 7 and 8, I backsight on a flag at the cor. of secs. 4, 5, 8 and 9, and turn an angle of 90° 17' to the left and run North on a random line , along line of fence, bet. secs. 5 and 6, setting temp. stakes at intervals of 10.00 chs. on the S. half thereof.

40.24 Falls 4 lks. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6.

79.98 Falls 8 lks. E. of the C.C. of secs. 5 and 6, on N. bdy. of Tp., and 10.31 lks. S. 89° 53' E. of the S.C. of secs. 31 and 32.

Move temp. stakes W., 1, 2 and 3 lks., respectively.

Returning to the cor. of secs. 5, 6, 7 and 8,

thence I run

N. 0° 03' W. on a true line bet. secs. 5 and 6,

Along wire fence, over sage brush flat.

10.06 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $\frac{1}{64}$ sec. cor. bet. secs. 5 and 6, with brass cap stamped

$\frac{1}{64}$ in N.
S 6 in W.
S 5 in E.
1914 in S.

Build a mound of stone around post.

20.12 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for S. $\frac{1}{16}$ sec. cor. bet. secs. 5 and 6, with brass cap stamped

S $\frac{1}{16}$ in N.
S 6 in W.
S 5 in E.
1914 in S.

Build a mound of stone around post.

30.18 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $\frac{1}{64}$ sec. cor. bet. secs. 5 and 6, with brass cap stamped

$\frac{1}{64}$ in N.
S 6 in W.
S 5 in E.
1915 in S.

Build a mound of stone around post.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

40.24 The $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, which is a quartzite stone 6x6x12 ins. above ground, witnessed by a mound of stone to the W. To further perpetuate this cor., north and alongside of the stone, I set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, with brass cap stamped

$\frac{1}{4}$ in N.
 S 6 in W.
 S 5 in E.
 1914 in S.

79.98 The C.C. bet. secs. 5 and 6, on N. bdy. of Tp., previously described (in notes of the 2nd Standard Parallel S.)
 From the C.C. bet. secs. 5 and 6, the S.C. of secs. 31 and 32 hrs. N. 89° 53' W., 10.23 chs. dist.

Land, level.
 Soil, 2nd rate.
 Heavy sage undergrowth.

From the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, I deflect an angle of 90° 16' from the backsight and run North on a random line through the middle of sec. 5, setting temp. stakes at intervals of 10 chs., and at

80.08 Intersect the N. bdy. of the Tp. at a point 8 lks. E. of the closing $\frac{1}{4}$ sec. cor. of sec. 5 (on north bdy. of same)
 Move temp. stakes West 1, 2, 3, 4, 5, 6, and 7 lks. respectively.

From the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6, I run S. 89° 46' E. on a random line through the middle of sec. 5, towards a flag plainly visible at the $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5, determining this bearing by deflecting an angle of 89° 46' from the south end of my random line run north at this place, and setting temp. stakes at intervals of 10.00 chs.

40.16 Falls 22 lks. N. of temp. center $\frac{1}{4}$ sec. cor.

80.36 Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 4 and 5.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Thence I run

N. 89° 46' W. on a true line through the middle of sec. 5.
Over level, sage-brush land.

10.05 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

20.10 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for E. 1/16 sec.
cor. on E. and W. 1/4 sec. line of sec. 5, with brass cap
stamped

E 1/16 in N.
S 5 1914 in S.
1/4 in E.
1/4 in W.

Build a mound of stone around the post.

30.15 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

40.20 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for center 1/2 sec.
cor. of sec. 5, with cap stamped

C 1/2 S 5 in center
1914 in S.

Build a mound of stone around the post.

50.24 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

60.28 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for W. 1/16 sec.
cor. on E. and W. 1/4 sec. line of sec. 5, with brass cap

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

stamped

W $\frac{1}{16}$ in N.
S 5 1914 in S.
 $\frac{1}{4}$ in E.
 $\frac{1}{4}$ in W.

Build a mound of stone around the post.

- 70.32 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $\frac{1}{64}$ sec. cor. of sec. 5, with brass cap stamped

$\frac{1}{64}$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 80.36 The $\frac{1}{4}$ sec. cor. bet. secs. 5 and 6.

Land, level.

Soil, 2nd rate, covered with dense growth of sage.

From the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8, I run

N. $0^{\circ} 2'$ W. on a true line through the middle of sec. 5.

- 10.05 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $\frac{1}{64}$ sec. cor. of sec. 5, with cap stamped

$\frac{1}{64}$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 20.11 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for S. $\frac{1}{16}$ sec. cor. on N. and S. $\frac{1}{4}$ sec. line of sec. 5, with cap stamped

S $\frac{1}{16}$ S 5 in center
 $\frac{1}{4}$ in N.
 $\frac{1}{4}$ 1914 in S.

Build a mound of stone around the post.

- 30.16 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $\frac{1}{64}$ sec. cor. of sec. 5, with cap stamped

$\frac{1}{64}$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 40.22 The center $\frac{1}{4}$ sec. cor. of sec. 5.

- 50.26 Set an iron post (at proportional distance) 3 ft. long,

--	--	--	--

Blank

Page

--	--	--	--

Subdivision lines in T. 11 S., R. 19 W.

Chains

1 inch in dia., 26 ins. in the ground, for $1/64$ sec.

cor. of sec. 5, with cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 60.31 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for N. $1/16$ sec. cor. on N. and S. $\frac{1}{4}$ sec. line of sec. 5, with cap stamped

N $1/16$ S 5 in center
 $\frac{1}{4}$ in N.
 $\frac{1}{4}$ 1914 in S.

Build a mound of stone around the post.

- 70.35 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 80.05 The closing $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 5, previously described (in notes of the retracement of the 2nd Standard Parallel S.)

From the $1/64$ sec. cor. bet. secs. 5 and 6, which is 10.06 chs. N. $0^\circ 3'$ W. of the cor. of secs. 5, 6, 7 and 8, I run

S. $89^\circ 44'$ E. on a random line through the middle of the $S\frac{1}{2}$ of the $SW\frac{1}{4}$ of sec. 5, setting cors. at intervals of 10.00 chs., a flag at $1/64$ sec. cor. bet. the SE. and SW. quarters of sec. 5 being plainly visible.

- 40.14 The $1/64$ sec. cor. bet. the SE. and SW. quarters of sec. 5, 10.05 chs. N. $0^\circ 2'$ W. of the $\frac{1}{4}$ sec. cor. bet. secs. 5 and 8.

Thence I run

N. $89^\circ 44'$ W. on a true line through the middle of the $S\frac{1}{2}$ of the $SW\frac{1}{4}$ of sec. 5.

Over level land, covered with dense sage brush.

Blank Page

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

10.03 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

20.07 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

30.10 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

40.14 The 1/54 sec. cor. bet. secs. 5 and 6, which is 10.06 chs.

N. 0° 3' W. of the cor. of secs. 5, 6, 7 and 8.

Land, level.

Soil, 2nd rate.

Heavy growth of sage brush on entire area.

From the S. 1/16 sec. cor. bet. secs. 5 and 6, I run S. 89° 45' E. on a random line through the middle of the SW $\frac{1}{4}$ of sec. 5, setting temp. cors. at intervals of 10.00 chs., a flag at the S. 1/16 sec. cor. of sec. 5 being plainly visible.

40.15 Intersect the S. 1/16 sec. cor. on the N. and S. $\frac{1}{4}$ sec. line of sec. 5.

Thence I run

N. 89°45' W. on a true line through the middle of the

SW $\frac{1}{4}$ of sec. 5,

Over level land, covered with dense sage brush.

10.04 At proportional distance, set an iron post 3 ft. long, 1

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

inch in dia., 26 ins. in the ground, for $1/64$ sec. cor.
of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

- 20.08 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for the SW. $1/16$
sec. cor. of sec. 5, with brass cap stamped

SW $1/16$ S 5 in center
1914 in S.

Build a mound of stone around the post,

- 30.11 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for $1/64$ sec. cor.
of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around post.

- 40.15 The S. $1/16$ sec. cor. bet. secs. 5 and 6.

Land, level.

Soil, 2nd rate.

Dence undergrowth of sage brush, entire distance.

From the $1/64$ sec. cor. bet. secs. 5 and 6, which is
10.06 chs. S. $0^\circ 03'$ E. of the $\frac{1}{4}$ sec. cor. bet. secs.
5 and 6, I run

S. $89^\circ 46'$ E. on a random line through the middle of the
N. half of the SW $\frac{1}{4}$ of sec. 5, setting temp. cors. at
intervals of 10.00 chs., a flag at the $1/64$ sec. cor.
10.06 chs. S. $0^\circ 2'$ E. of the center $\frac{1}{4}$ sec. cor. of sec.
5 being plainly visible.

- 40.14 Intersect $1/64$ sec. cor. bet. the SE. and SW. quarters of
sec. 5, 10.06 chs. S, $0^\circ 2'$ E. of the center $\frac{1}{4}$ sec. cor.
Thence I run

N. $89^\circ 46'$ W. on a true line through the middle of the
N $\frac{1}{2}$ of the SW $\frac{1}{4}$ of sec. 5.

- 10.03 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for $1/64$ sec. cor.
of sec. 5, with brass cap stamped

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

20.07 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

30.10 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

40.14 The 1/64 sec. cor. bet. secs. 5 and 6, which is 10.06 chs. S. 0° 3' E. of the 1/4 sec. cor. bet. secs. 5 and 6.

Land, level.
Soil, 2nd rate.
Dense undergrowth of sage brush, full distance.

From the 1/64 sec. cor. of sec. 5, which is 10.06 chs.

S. 0° 02' W. of the center 1/4 sec. cor., I run S. 89° 46' E. on a random line through the middle of the N 1/2 of the SE 1/4 of sec. 5, setting temp. cors. at intervals of 10.00 chs., a flag being plainly visible at the 1/64 sec. cor. 10.05 chs. S. 0° 2' E. of the 1/4 sec. cor. bet. secs. 4 and 5.

40.19 Intersect the 1/64 sec. cor. 10.05 chs. S. 0° 2' E. of the 1/4 sec. cor. bet. secs. 4 and 5.

Thence I run

N. 89° 46' W. on a true line through the middle of the N 1/2 of the SE 1/4 of sec. 5.

10.05 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for 1/64 sec. cor. of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Build a mound of stone around the post.

20.10 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

30.15 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

40.19 The $1/64$ sec. cor. of sec. 5, 10.06 chs. S. $0^{\circ} 02'$ E. of the center $\frac{1}{2}$ sec. cor. of sec. 5.

Land, level.

Soil, 2nd rate.

Dense undergrowth of sagebrush, entire distance.

From the $1/64$ sec. cor. of sec. 5, which is 10.04 chs.

N. $0^{\circ} 2'$ W. of the center $\frac{1}{2}$ sec. cor. of sec. 5, I run S. $89^{\circ} 46'$ E. on a random line through the middle of the $S\frac{1}{2}$ of the NE $\frac{1}{4}$ of sec. 5, setting temp. cors. at intervals of 10.05 chs., a flag at the $1/64$ sec. cor. bet. secs. 4 and 5 being plainly visible.

40.22 Intersect the flag at the $1/64$ sec. cor. bet. secs. 4 and 5, which is 10.05 chs. N. $0^{\circ} 2'$ W. of the $\frac{1}{2}$ sec. cor.

Thence I run

N. $89^{\circ} 46'$ W. on a true line through the middle of the $S\frac{1}{2}$ of the NE $\frac{1}{4}$ of sec. 5.

10.05 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

20.11 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor.

Blank Page

Blank Page

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

30.16 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

40.22 The $1/64$ sec. cor. of sec. 5, which is 10.04 chs. N. $0^{\circ}2'W$. of the center $\frac{1}{4}$ sec. cor. of sec. 5.

Land, level.

Soil, 2nd rate.

Dense undergrowth of sage brush, entire distance.

From the N. $1/16$ sec. cor. on N. and S. center line of sec. 5, I run

S. $89^{\circ}46'$ E. on a random line through the middle of the NE $\frac{1}{4}$ of sec. 5, setting temp. cors. at intervals of 10.05 chs., a flag at the N. $1/16$ sec. cor. bet. secs. 4 and 5 being plainly visible.

40.20 Intersect the flag at the N. $1/16$ sec. cor. bet. secs. 4 and 5.

Thence I run

N. $89^{\circ}46'$ W. on a true line through the middle of the NE $\frac{1}{4}$ of sec. 5.

Over level land, covered with dense sage brush.

10.05 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor. of sec. 5, with brass cap stamped

$1/64$ S 5 in center
1914 in S.

Build a mound of stone around the post.

20.10 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for NE $1/16$ sec. cor. of sec. 5, with brass cap stamped

NE $1/16$ S 5 in center
1914 in S.

Build a mound of stone around the post.

30.15 At proportional distance, set an iron post 3 ft. long, 1 inch in dia., 26 ins. in the ground, for $1/64$ sec. cor.

1	I, the undersigned, do hereby certify that the foregoing is a true and correct copy of the original as the same appears in the records of the Department of the Interior.	100-100000
---	---	------------

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

40.20 The N. 1/16 sec. cor. on N. and S. 1/4 sec. line of sec. 5.

Land, level.

Soil, 2nd rate, gravelly.

Dense undergrowth of sage brush, entire distance.

From the 1/64 sec. cor. of sec. 5, 30.13 chs. N. 0° 2' W.

of the center 1/4 sec. cor., I run

S. 89° 46' E. on a random line through the middle of the
N 1/2 of the NE 1/4 of sec. 5, setting temp. cors. at inter-
vals of 10.05 chs., a flag at the 1/64 sec. cor. bet.
secs. 4 and 5 which is 9.78 chs. S. 0° 2' E. of the C.C.
of secs. 4 and 5, being plainly visible.

40.20 Intersect the flag at the 1/64 sec. cor. bet. secs. 4 and
5, 9.78 chs. S. 0° 2' E. of the C.C. of secs. 4 and 5.

Thence I run

N. 89° 46' W. on a true line through the middle of the
N 1/2 of the NE 1/4 of sec. 5.

10.05 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

20.10 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Build a mound of stone around the post.

30.15 At proportional distance, set an iron post 3 ft. long, 1
inch in dia., 26 ins. in the ground, for 1/64 sec. cor.
of sec. 5, with brass cap stamped

1/64 S 5 in center
1914 in S.

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

Chains

Build a mound of stone around the post.

40.20 The $\frac{1}{64}$ sec. cor. of sec. 5, 9.70 chs. S. $0^{\circ} 2'$ E. of
the closing $\frac{1}{4}$ sec. cor. on N. bdy. of sec. 5.

Land, level.

Soil, 2nd rate.

Dense undergrowth of sage brush, entire distance.

Nov. 25, 1914.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

032300

100% with 100% chance of success in 1972

[illegible]

Blank

Page

Subdivision lines in T. 11 S., R. 19 W.

GENERAL DESCRIPTION.

The eastern portion of this township is very mountainous and broken. The summit of the Deep Creek range of mountains lying about one-half mile east of the East boundary varies from 10,000 to 12,000 ft. above sea level, and the spur and ridges therefrom to the westward are very precipitous, rocky and broken, and covered with a heavy growth of spruce and pine timber. Along the streams which flow generally NW. is a heavy growth of aspen timber.

The central and western portion of the township contains agricultural and grazing land, and has been previously surveyed.

The portions of this township still unsurveyed are to be reserved for timber and the preservation of the watershed and are therefore not subdivided.

H. L. Baldwin,

Topographer

Blank

Page

Denver, Colorado, *March 16* 1916

I hereby certify that the survey of subdivision lines in T. 11 S., R. 19 W., within the Goshute Indian Reservation, Salt Lake Meridian, Utah, was made under my direction and supervision, and to the best of my knowledge and belief the field work was executed in strict accordance with instructions given me dated May 21, 1914, and the Manual of Surveying Instructions, and that these field notes are a correct representation thereof.

A. F. Drumming

Topographer in Charge of
Indian Surveys

512

FINAL OATH OF UNITED STATES SURVEYOR.

I, _____, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for _____ bearing date of the _____ day of _____, 191 _____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

See Book "A".

_____ of the _____ Meridian, in the State of _____, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 191 _____ }



APPROVAL.

OFFICE OF THE COMMISSIONER OF THE GENERAL LAND OFFICE.
~~OFFICE OF THE UNITED STATES SURVEYOR GENERAL.~~

Washington, D.C. Dec. 4, 1916

The foregoing field notes of the survey of subdivision lines in T. 11 S., R. 19 W., within the Goshute Indian Reservation, Salt Lake Meridian, Utah,

executed by H.L. Baldwin, Topographer, under direction of A.F. Dunnington, Topographer in Charge of Indian Surveys under his special instructions dated May 21, 1914, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

(Signed) *Clay T. Allman*
U. S. Surveyor General
Commissioner of the General Land Office

I certify that the foregoing transcript of the field notes of the above-described surveys in the Goshute Ind. Res'n, Utah, has been correctly copied from the original notes on file in this office.

[Signature]
U. S. Surveyor General
Commissioner of the General Land Office